

T143N

R25W

5TH P.M.

KE

FIELD BOOK

82.0092

BOOK #4

T
1
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N
R
2
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W
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P
M
K
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F
I
E
L
D
B
O
O
K

4

T143N R25W
BOOK #4

5th P.M.
FULLBOOK

T143N R25W 5th PRINCIPAL No.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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USFS, CASS COUNTY, MN

③ Checking HP EDM TO List = EDM

90-12-27

269-47-33

90-12-27

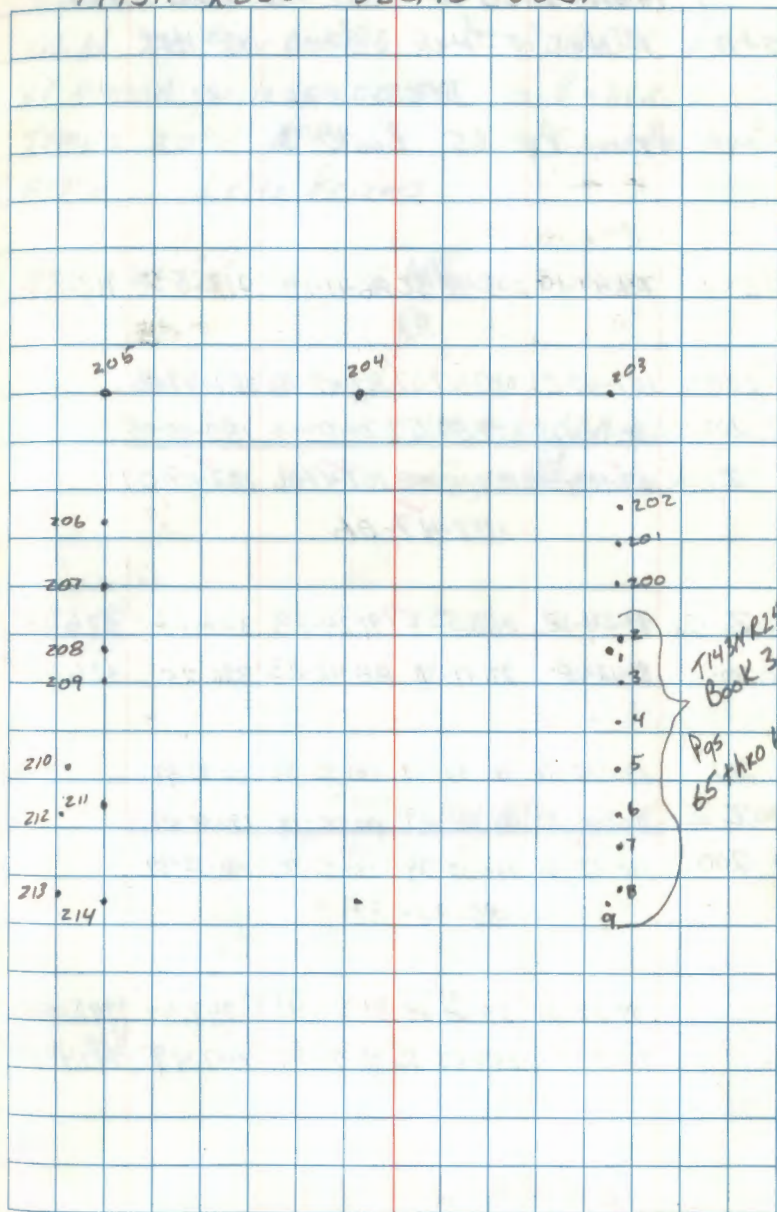
(H.P.) (note)
S. Dist S. Dist

4401.42 4401.48

(H.P.) (note)
H. Dist H. Dist

4401.39 4401.45

T143N R25W Sec. 15 Sub. ②



② T 143N R 25W SEC. 15 EXT. Subd.

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

H&R

Cont. from Pg 65 Book 3

Dist 2-1 86-11-10 273-48-32 86-11-19 112.53 112.28

FS 200 107-47-23 287-47-07 107-47-18 287-47-06

BS 1 00-00-15 179-59-59 00-00-12 180-00-05

TP Z 107-47-08 107-47-08 107-47-06 107-47-01

107-47-06

Dist 2-200 91-24-12 268-35-27 91-24-23 326.26 326.1617

Dist. 200- 88-42-15 271-17-30 88-42-23 326.25 326.1668

FS 201 180-32-56 00-32-48 180-32-56 00-32-48

BS Z 80-00-20 180-00-09 00-00-18 180-00-09

TP 200 180-32-36 180-32-39 180-32-38 180-32-39

180-32-38

Dist. 89-56-33 270-~~02-58~~⁰³⁻¹¹ 89-56-41 747.49 747.4897

Dist. 90-06-04 269-53-35 90-06-14 747.49 747.4888

CKWA 2-2-84

Instruments

1-26-84

3

Wild T2 S/N 265184 LI B. Ausk PC

HP 3800A 9N 1225A 02815A G. Robertson

TEMP = 20°F BPR = G. Schultz

ECF = Leitz Prizms

BS = E 1/4 515

10" ASPEN

923

923

STA 2 = BLM St. NL

10.85 6" W Birch

326.16
10

2" Birch

3.54

STA 200 = BLM Sta 8N

5.02

747.49
43

3" aspen

Cont. from Pg. 3

4 T143N R25W SEC. 15 Ext. Subd.

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

FS 202 163-27-46 343-27-30 163-27-24 343-27-30

BS 200 00-00-09 179-59-56 00-00-13 180-00-02

T@ 201 163-27-37 163-27-34 163-27-28 163-27-28

163-27-32 ✓

Dist. 201-202 89-55-29 270-04-10 89-55-40 293.00 292.9998

Dist. 202-201 70-11-~~32~~⁴⁷ 269-47-46 90-12-01 292.97 292.9682FS 203 190-20-~~26~~⁵⁰ 190-20-~~29~~⁰ 190-20-34 190-20-26BS 201 00-00-~~26~~⁵⁴ 180-00-37 00-00-46 180-00-30T@ 202 190-20-~~41~~¹¹⁻⁵⁶ 190-19-51 190-19-48 190-19-56

190-19-53 ✓

Dist. 89-52-45 270-06-46 89-53-00 1262.06 1262.0574

Dist. 70-08-09 269-51-05 90-08-32 1262.02 1262.0162

CKWA 2-2-84

Jan 25, 1984

4

12" ASPEN 7" Ash

EB

EB

11/11

8.57

STA 201 = 60d spike

292.96 ✓
92ASPEN
EBASPEN
EBSTA 202 = 60d spike
pt. on edge of field1262.04 ✓
1261.98

5 Cont from Pg. 4
T148 N R25W Sec 15 EXT Subd.

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

FS 204 98-19-⁸15 278-17-⁸04 ~~98-20-10~~ 278-19-53

BS 202 00-00-46 180-01-16 00-02-49 179-58-01

7 T@ 203 98-18-29 98-17-48 98-17-21

D. Dist. 203-204 90-03-35 267-56-22 90-03-37 2312.08 2312.0787

D. Dist. 204-203 87-57-⁵⁶22 270-01-⁴⁵23 89-58-06 2312.13 2312.1296

FS 204 98-17-28 278-17-12 98-16-48 278-16-52

BS 202 10-00-22 ~~179-56-00~~ 00-00-15

7 T@ 203 98-17-06 98-17-08 98-16-33

D. FS 204 98-17-⁵¹32 278-17-⁵⁰28 98-17-52 278-17-³43

D. BS 202 00-00-⁵⁰47 180-00-⁴¹36 00-00-50 180-00-37

T 203 98-17-⁰¹75 98-16-¹⁷52 98-17-02 98-17-06

98-17-05

OK WA 2-2-84

5
Jan 26, 1984

PK NAIL OVER SPIKE
NE COR SEC 15

2,312.10
04

Cont from Pg 5

6 T143N R25W Sec 15 Ext. Subd.
S+A, 1st HAR 2nd HAR 3rd HAR 4th HAR
H9

FS 202⁵ 180-58-17 00-58-⁰⁷ 180-58-21 00-58-09
BS 203 00-00-²⁷ 180-00-¹⁷ 00-00-25 180-00-17
T@ 204 180-57-55 180-57-⁵⁰ 180-57-56 180-57-52

180-57-53 ✓

Dist. 205-204 89-58-17 270-01-38 89-58-20 2562.47 2562.4897

Dist. 204-203 90-02-38 269-57-03 90-02-48 2562.46 2562.4592

FS 206 88-24-09 268-24-00 88-24-07 268-23-57

BS 204 00-00-23 180-00-14 00-00-20 180-00-14

T@ 205 88-23-46 88-23-46 88-23-⁴⁷ 88-23-43

88-23-46 ✓

Dist. 206-206 70-00-51 269-59-09 90-00-41 1310.60 1310.60

Dist. 206-205 70-00-54 269-58-58 90-00-50 1310.60 1310.5999

CKWA 2-2-84

Feb. 1, 1984

B. Avsk

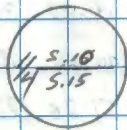
G. Robertson

SAME INSTRUMENTS

Overcast, Foggy 28°F

1 1/2" BRASS TAB

STA 204 = N 1/4

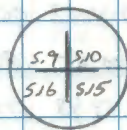


2562.46 ✓

40

1 1/2" BRASS TAB

STA 205 = NW SC



1310.60 ✓

54

7

Cont'd from pg. 6

T143N R25W SEC 15 EXT. Subd.

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

FS 207 179-59-55 359-59-42 179-59-52 359-59-38

BS 205 ~~00-00-28~~ ~~180-00-15~~ ~~00-00-26~~ 180-00-16

⊗ 206 179-59-27 179-59-27 179-59-26 179-59-22

179-59-26 ✓

Dist. 206-207 89-58-50 270-01-05 89-58-53 654.98 654.98

Dist. 207-206 90-04-27 267-55-16 90-04-36 654.98 654.9794

FS 208 ⁶⁰~~180-00-16~~ ¹²~~00-00-08~~ 180-00-13 00-00-00

BS 206 ²⁴~~00-00-27~~ ²⁴180-00-12 00-00-25 180-00-09

⊗ 207 ⁴⁸179-59-44 ⁴⁸179-59-56 179-59-48 179-59-51

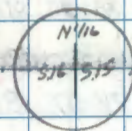
179-59-51 ✓

Dist. 207-208 90-11-02 267-48-39 90-11-12 655.01 655.0065

Dist. 208-207 87-52-14 270-07-42 87-52-16 655.03 655.0283

CKWA 2-2-84

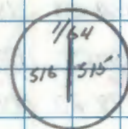
Feb 1, 1984



1/2" BRASS TAB

STA 206 = N 1/4 between
sections 15 & 16

654.98 ✓
92



1/2"
STA 207 = BRASS TAB.

655.02 ✓
654.96

T143N R25W Sec 15 Ext. Sub.

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

FS 209 181-23-²¹~~46~~ 01-23-11 181-23-20 01-23-13

BS 207 00-00-³⁴~~25~~ 180-00-18 00-00-33 180-00-21

T@ 208 181-22-⁵⁷~~34~~ 181-22-⁵³~~45~~ 181-22-47 181-22-52
181-22-50 ✓

Dist. 208-209 87-57-59 270-01-36 89-58-12 328.49 328.49

Dist. 204-208 70-08-36 269-51-20 90-08-38 328.47 328.4690

FS 210 194-24-⁵⁶~~57~~ 14-24-43 194-24-58 14-24-46

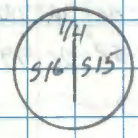
BS 208 00-00-³⁶~~26~~ 180-00-21 00-00-31 180-00-26

T@ 209 194-24-²⁰~~31~~ 194-24-22 194-24-27 194-24-20
194-24-22 ✓

Dist. 209-210 87-57-47 270-02-00 89-57-54 32 911.50 911.4998

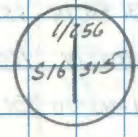
Dist. 210-209 70-04-35 269-55-28 90-04-34 911.49 911.4892

CKWA 2-2-84



1/4 corner
STA 208 = 1/4 on E. edge
of highway (in the top)

328.48 ✓
42



3" Aluminum Cap
STA 209 = 1/256 corner
on E. edge of highway

911.49 ✓
43

9

Cont'd from p 8

T143N R25W SEC 15 EXT. Sub
 STA 1st H&D 2nd H&R 3rd H&D 4th H&R
 H&S

F	FS	211	99-53-00	279-52-30	99-53-02	279-52-50
B	BS	209	00-00-28	180-00-20	00-00-36	180-00-18
T	T@	210	99-52-30	99-52-30	99-52-26	99-52-32
			99-52-30 ✓			

Dis	Dist. 210-211	93-19-37	266-40-07	93-19-45	248.61	248.1904
Dis	Dist. 211-210	86-49-09	273-10-50	86-49-10	248.57	248.2071

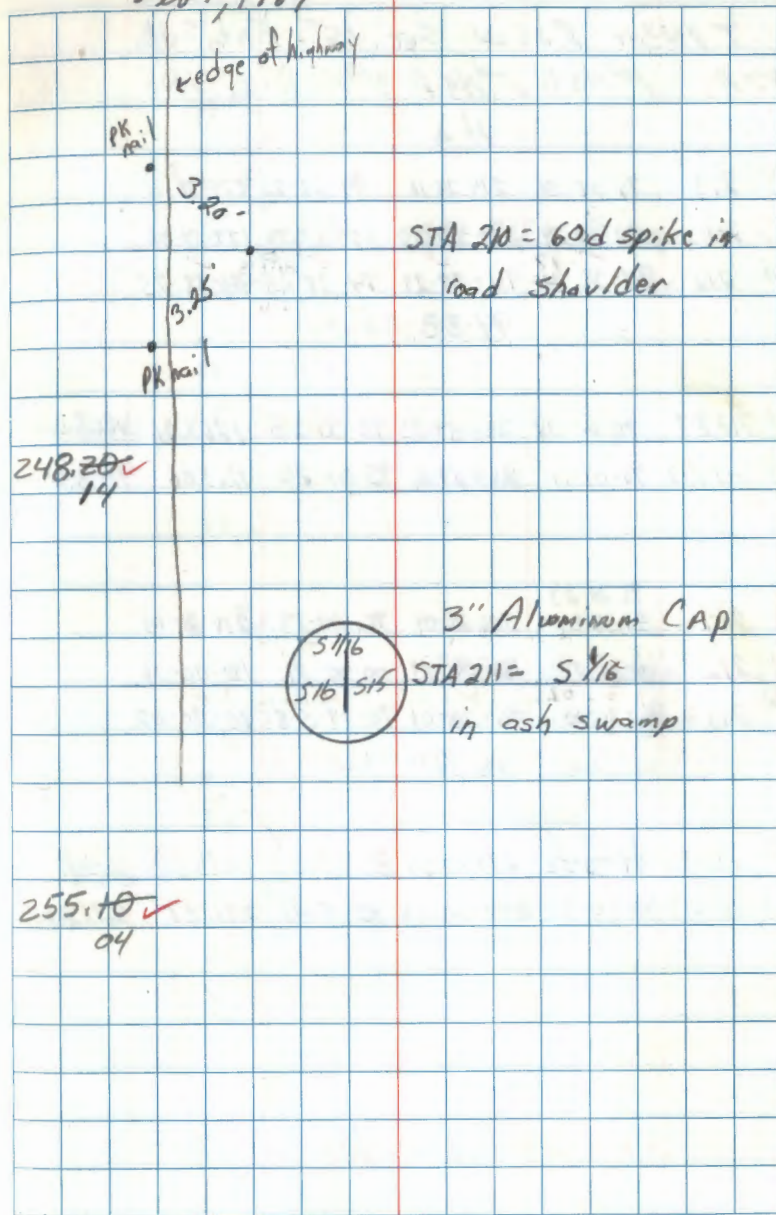
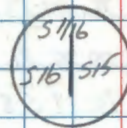
F	FS	212	331-40-18	151-40-04	331-40-14	151-40-02
B	BS	210	00-00-22	180-00-07	00-00-14	180-00-00
T	T@	211	331-39-56	331-39-57	331-40-00	331-40-02
			331-39-59 ✓			

Dis	Dist. 211-212	86-50-13	273-09-48	86-50-16	255.49	255.1010
Dis	Dist. 212-211	93-18-05	266-41-39	93-18-13	255.53	255.1054

CK WA 2-2-84

Feb 1, 1984

9

248.20 ✓
143" Aluminum Cap
 STA 211 = 5 1/8
 in ash swamp255.10 ✓
04

T143N R25W Sec. 15 Ext. Sub.

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

H &

FS 213 94-38-36 274-38-18 94-38-25 274-38-11

BS 211 00-00-19 179-57-50 359-59-56 179-57-46

T@ 212 94-38-~~27~~¹⁷ 94-38-28 94-38-~~25~~²⁹ 94-38-25

94-38-25 ✓

Dist. 212-213 90-00-38 269-59-23 90-00-38 1263.06 1263.06

Dist. 213-212 90-01-11 269-58-31 90-01-20 1263.06 1263.0599

FS 214 96-20-23
~~97-39-34~~ 276-20-09 96-20-19 276-20-09

BS 212 00-00-21 180-00-01 00-00-21 180-00-06

T@ 213 96-20-~~13~~⁰² 96-20-01 96-19-58 96-20-02

96-20-01 ✓

Dist. 213-214 ~~87-50-16~~⁸⁷⁻⁵⁰⁻¹⁶
~~97-43-58~~ 270-09-30 87-50-23 271.30 271.2989

Dist. 214-213 90-14-41 269-45-19 90-14-41 271.21 271.21

CK WA 2-2-84

Feb 1, 1984

PK nail

Fg

PK nail

PK nail

1263.06 ✓

1263.00

P.K. nail

Fg

3.03

PK nail

271.26 ✓

STA 212 = 60d spike
in road shoulderSTA 213 = 60d spike in
road shoulder, spike
is bent over, set up
over head

11

Cont. from Pg 10

T143N R25W SEC 15 Ext. Sub.
 STA 1st H&D 2nd H&D 3rd H&D 4th H&D
 H&D

FS 215 168-57-54 348-57-45 168-57-51 348-57-47

BS 213 00-00-21 180-00-10 00-00-21 180-00-10

T² 214 168-57-33 168-57-35 168-57-30 168-57-32

168-57-33 ✓

Dist. ²¹⁴ 215 87-55-12 270-05-13 89-55-00 269.28 269.28

Dist. ²¹⁵ 214 90-13-02 269-47-00 90-13-01 269.28 269.28

FS 216 186-50-13 06-50-01 186-50-16 06-50-05

BS 214 00-00-~~22~~²⁶ 180-00-20 00-00-26 180-00-18

T² 215 186-49-47 186-49-41 186-49-30 186-49-47

186-49-46 ✓

Dist. ²¹⁵ 216 91-49-20 268-10-37 91-49-22 558.60 558.32

Dist. ²¹⁶ 215 88-16-23 271-43-38 88-16-23 558.55 558.30

✓ OK ch. 03/21/84

3-19-84

11

Wild T2 SW/

T² 10 B. Ausk

Red 1A SW/

Aids G. Kosenko

TEMP 25°F

G. Robertson

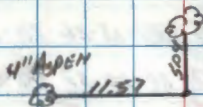
BAR. 29.8

ECF = -1



269.279 ✓

10' BURR OAK



STATION 215 = 60d spike

558.307 ✓

T143N R25W SEC 15 Ext, Sub

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

H&R

FS 217 158-37-13 338-36-59 158-37-60 338-37-01

BS 215 00-00-40 180-00-24 00-00-28 180-00-18

T@ 216 158-36-33 158-36-35 158-36-42 158-36-43

158-36-38 ✓

Dist. 216-217 87-36-48 272-23-11 87-36-48 ✓ 119.68 119.58

Dist. 217-216 92-41-59 267-18-03 92-41-58 119.74 119.61

FS 218 200-12-29 200-12-18 200-12-26 200-12-15

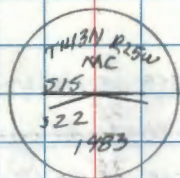
BS 216 00-00-~~30~~³⁹ 180-00-27 00-00-37 180-00-29T@ 217 200-12-~~39~~⁵⁰ 200-12-51 200-12-49 200-12-46

200-12-49 ✓

Dist. 217-218 83-36-13 276-23-51 83-36-11 219.56 218.19

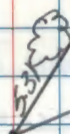
Dist. 218-217 96-33-59 263-26-13 96-33-53 219.64 218.20

Mar 19, 1984

East side of
FIVER

119.592 ✓

3" Ash



4" Ash



9.91

STA 217 = 60 d spike

218.196

T143N R25W Sec. 15 Ext. Sub.
Sta 1st H&D 2nd H&R 3rd H&D 4th H&R
H&R

FS 219 178-47-01 358-46-⁵²~~46~~ 178-47-01 358-46-54

BS 217 00-00-27 180-00-²⁵~~21~~ 00-00-34 180-00-24

T@ 218 178-46-³³~~33~~ 178-46-³¹~~25~~ 178-46-³¹~~37~~ 178-46-30

178-46-30

Dist. 219-217 86-43-30 273-16-34 86-43-28 880.38 878.94

Dist. 217-218 93-19-20 266-40-52 93-19-14 880.44 878.96

FS 220 179-48-19 359-48-06 179-47-58 359-47-47

BS 218 00-00-27 180-00-17 00-00-¹¹~~05~~ 180-00-02

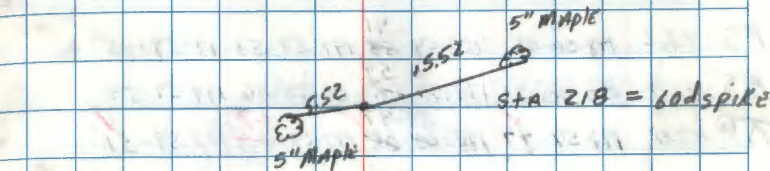
T@ 219 179-47-⁵²~~52~~ 179-47-⁴⁹~~49~~ 179-47-⁴⁷~~43~~ 179-47-45

179-47-48

Dist. 219-220 91-32-07 268-27-56 91-32-06 543.96 543.76

Dist. 220-219 88-32-11 271-27-52 88-32-10 543.97 543.79

✓ OK for 03/21/84



878.952 ✓

11" Birch

415

Sta 219 60d spike

10" Basswood

543.779 ✓

14

Cont'd from Pg 13

T143N R25W Sec 15 Ext. Sub

S+A 1st H&D 2nd H&R 3rd H&D 4th H&R

H&D

FS 221 178-00-05 17-59-~~44~~⁴¹ 177-59-53 17-59-45BS 219 00-00-21 179-59-~~54~~⁵¹ 00-00-06 179-59-54T@ 220 177-59-44 177-~~59-47~~⁵⁹⁻⁴⁷ 177-59-~~45~~⁴⁷ 177-59-51

177-59-47✓

Dist. 220-221 90-55-32 269-04-27 90-55-33 81.30 81.29

Dist. 221-220 89-31-33 270-28-36 89-31-28 81.29 81.29

FS 222 156-19-15 336-19-02 156-19-14 336-19-03

BS 220 00-00-21 180-00-11 00-00-19 180-00-12

T@ 221 156-18-54 156-18-51 156-18-56 156-18-51

156-18-53✓

Dist. 221-222 89-18-46 270-41-17 89-18-45 213.87 213.85

Dist. 222-221 90-51-35 269-08-17 90-51-39 213.86 213.86

✓ OK Gk 03/21/84

March 19, 1984 14

366

STAZZO = 60d spike

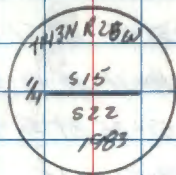
5" OAK

691

5" MAPLE

81.288✓

STAZZO =



213.845✓

✓ OK Gk 03/21/84

T143N R25 W SEC. 15 Ext. Sub.

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

H&R

FS 223 183-57-47 03-57-36 183-57-42 03-57-28

BS 221 00-00-27 180-00-14 00-00-24 180-00-05

T@ 222 183-57-70 183-57-72 183-57-18 183-57-23

183-57-21 ✓

Dist. 222-223 88-42-21 271-17-39 88-42-21 ✓ 814.81 814.60

Dist. 223-222 91-20-27 248-57-38 91-20-24 814.80 814.58

FS 224 189-51-~~56~~³⁹ 09-51-37 189-51-44 09-51-36BS 222 00-00-~~29~~³³ 189-51-32 00-00-34 180-00-29T@ 223 189-51-~~27~~⁻⁰⁶ 189-51-05 189-51-10 189-51-07

189-51-07 ✓

Dist. 223-224 92-04-35 267-55-34 92-04-31 298.29 298.09

Dist. 224-223 87-56-28 272-03-40 87-56-24 298.28 298.09

✓ OK Ch. 03/21/84

12" Birch

②

1937

STA 222 = 60d spike

13.56

②

14" OAK

814,590 ✓

3" MAPLE

②

11.31

11" Birch

②

4.98

STA 223 = 60d spike

298,091 ✓

T143N R25 W SEC 15 Ext. Sub.
 STA 1st H&R 2nd H&R 3rd H&R 4th H&R
 H&R

FS 225 156-59-09 346-58-56 166-58-62 346-58-57

BS 223 00-00-29 180-00-19 00-00-27 180-00-21

π@ 224 166-58-40 166-58-37 166-58-35 166-58-36

166-58-37

Dist. 224-225 91-18-26 268-41-38 91-18-24 354.20 354.11

Dist. 225-224 88-47-50 271-12-04 88-47-53 354.17 354.09

FS 226 182-07-27 02-07-10 182-07-30 02-07-22

BS 224 00-00-28 180-00-14 90-00-25 180-00-16

π@ 225 182-06-59 182-06-56 182-07-05 182-07-06

182-07-02

Dist. 225-226 89-27-50 270-32-03 89-27-54 518.58 518.56

Dist. 226-225 90-36-⁴⁵~~25~~ 269-23-¹⁰~~38~~ 90-36-48 518.58 518.55

OK H.C. 03/21/84

T143N R25 W
 S15
 E1/16 S22
 1985

354.100

13" OAK
 60"
 6.30
 16.26
 3" MAPLE
 STA 225 = 60d SPIKE

518.554

17

Cont. from Pg. 16

T143N R25 W SEC 15 Ext. Sub.
 STA 1st H&R 2nd H&R 3rd H&R 4th H&R
 H 3

	32	31	196-37-09	16-33-38
FS 227	196-37-48	16-37-44	159-59-00	16-37-10
BS 225	00-00-39	178-59-28	359-7-50	179-57-14
TC@ 226	196-37-31	196-37-46	19	36-46

D. Dist. 226-227 05-43 54-26 89-05-39 211.46 211.43

D. Dist. 227-226 91-04-57 268-55-13 91-04-52 211.46 211.42

FS 227 196-38-25 16-38-05 196-38-20 16-38-05

BS 225 00-00-30 180-00-19 00-00-26 180-00-03

TC@ 226 196-37-55 196-37-46 196-37-54 196-37-48

196-37-51

D. Dist. ~~211-513~~

D. Dist.

✓ OK GR. 03/21/89

320-84 17

Wild TZ SN/ 265184

B. Ausk

Red 1A SN/

G. Kosenka

Temp. - 36°F

7" MAPLE

G. Robertson

BAR. - 30.1

ECF. = -1

STA 226 = 67 917

STA 226 = 60 spike

211.428

T143N R25W SEC. 15 Ext. Sub.
 STA 1st H&R 2nd H&R 3rd H&R 4th H&R
 H&R

^{SE Sec. Cor.}
 FS 9 166-24-37 346-24-28 166-24-41 346-24-30
 BS 226 00-00-43 180-00-40 00-00-50 180-00-41
 X@ 227 166-23-54 166-23-48 166-23-51 166-23-49
 166-23-51

Dist. 27769 94-03-26 265-56-40 94-03-23 246.34 245.72

Dist. 96227 86-05-34 273-54-30 86-05-32 246.29 245.72

FS 8 150-51-02 330-50-45^{18 20} 150-50-39 330-50-30
 BS 227 00-00-27 179-59-42^{17 20} 00-00-05 179-59-52
 X@ 9 150-50-35 150-50-36^{15 20} 150-50-34 150-50-38
^{SE Sec. Cor.}
 150-50-36

Dist. 9628 91-06-26 268-53-31 91-06-28 221.95 221.91

Dist. See pg 68

STA 227 = BLM STA.

1.5' 1008
 5" Basswood

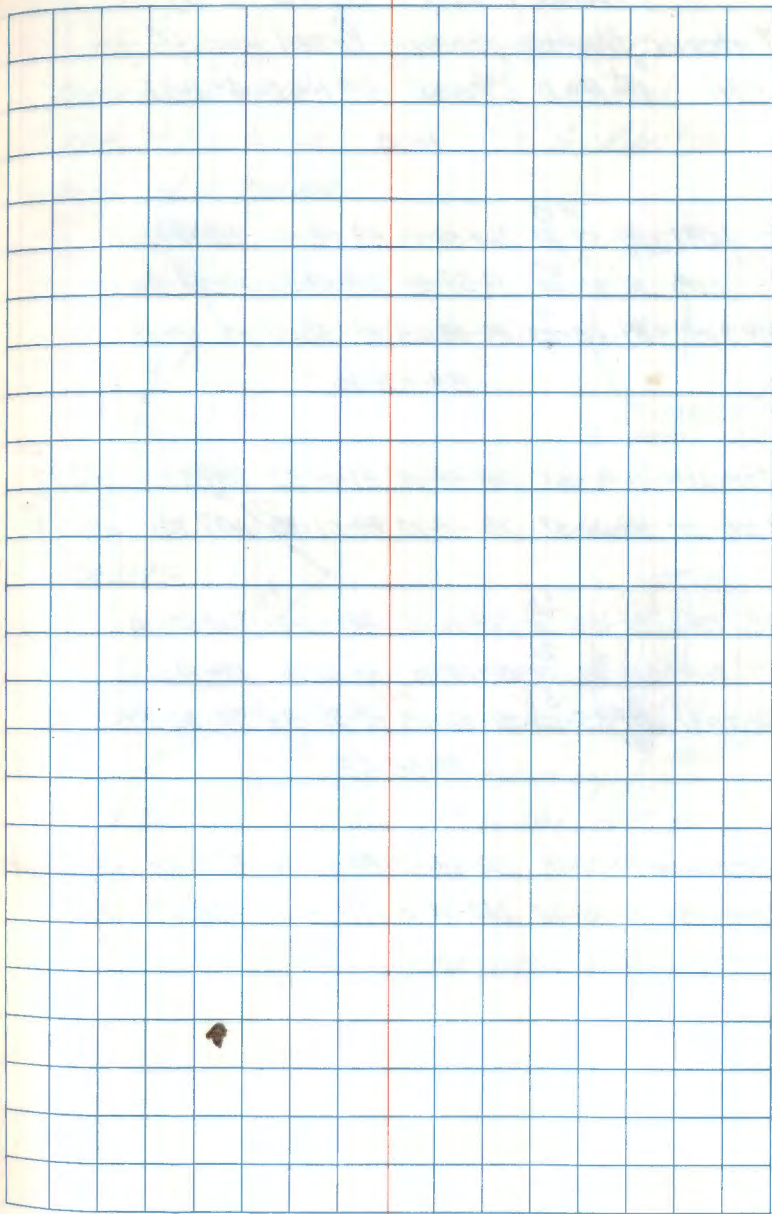
5" MAPLE

245.720

STA 9 = SE
 Sec. corner section
 15

221.88

REFER to Pg 68 Book 3 for
 STATIONS 889



21 T143N R25W Sec 15 Sub

Interior traverse ground Bruell sec 15

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

H &

FS 2091 89-58-~~37~~¹⁵ 269-58-03 89-58-10 268-58-05

BS 208 10-10-~~22~~⁰⁰ 179-59-48 359-59-53 179-59-46

TI@ 209 89-58-~~19~~¹⁵ 89-58-15 89-58-17 89-58-19

89-58-16

Dist 209-2091 91-01-55 268-58-08 91-01-53 647.32 647.22

Dist 2091-209 89-01-37 270-58-27 89-01-35 647.28 647.19

FS 2092 89-36-~~25~~¹⁷ 269-36-15 89-50-21 269-50-14

RS 209 10-10-~~22~~²⁴ 180-00-11 00-14-26 180-14-15

TI@ 2091 89-35-~~58~~⁻⁵³ 89-36-05 89-35-55 89-35-59

89-35-58

Dist 209-2092 89-01-18 270-58-50 89-01-14 328.69 328.64

Dist 2092-2091 91-05-27 268-54-25 91-05-31 328.67 328.61

✓ OK for 04/05/89

April 5, 1984

21

T/2 SN 265184

Red/A S/N 4863

BPR-29.7 ECF=0

Temp=50° @ 9:00 AM

PC. CD T. P. B. Kosonko

Asst. - B. Ausk

- G. Robertson

PK Nail

5.5

5.6

PK Nail

647.20

PK Nail

2.00

PK Nail

1.99

PK Nail

STA 209 =

PK Nail

STA 2091 =

3" Ash

6.58

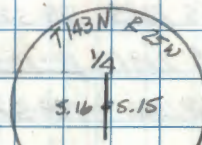
PK Nail

8.70

3" Ash

7" Ash

328.63



STA 208 =

1983
1 1/2" metal cap
east side road
shoulder



STA 209 =

Aluminum cap flush
w/shoulder, east side of
road.

STA 2091 = 60d spike

22 T143N R25W Sec 15 Sub

Interior traverse cont'd from pg. 21

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

H&R

FS 2093 178-57-⁵⁷~~51~~ 358-58-07 178-58-16 358-⁵⁷~~51~~

BS 2091 00-00-¹⁵~~27~~ 180-00-28 00-00-31 180-00-29

TA@2092 178-57-42 178-57-39 178-57-45 178-57-39

178-57-41 ✓

Dist 2092-2093 89-38-19 270-21-46 89-38-16 ✓ 654.31 654.28³⁰

Dist 2093-2092 90-25-14 269-34-46 90-25-14 ✓ 654.31 654.29

FS 207 91-29-³⁵~~35~~ 271-29-31 91-29-32 271-29-28

BS 2092 00-00-¹⁸~~09~~ 180-00-10 00-00-11 180-00-09

TA@ 2093 91-29-⁻¹⁷~~25~~ 91-29-21 91-29-21 91-29-19

91-29-20 ✓

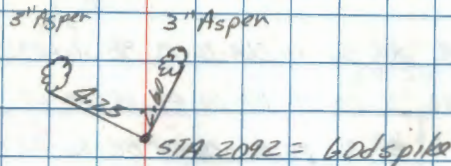
Dist 2093-207 89-49-39 270-10-18 89-49-40 ✓ 643.69 643.69

Dist 207-2093 90-13-¹⁶~~06~~ 269-46-56 90-13-07 643.71 643.71

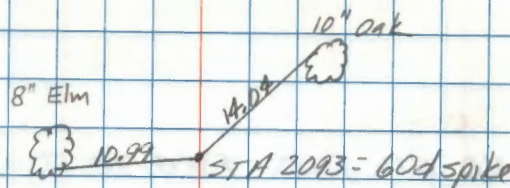
✓ OK R.R. 04/05/84

April 5, 1984

22



654.29 ✓



643.70 ✓

23

T143N R25W Sec 15 Sub

Interior traverse cont'd from pg 22

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

H&R

FS 208 88-36-16 268-36-13 88-36-09 268-36-05

BS 20A3 00-00-11 180-00-04 00-00-07 180-00-04

TA 207 88-36-~~16~~⁰⁵ 88-36-09 88-36-02 88-36-01

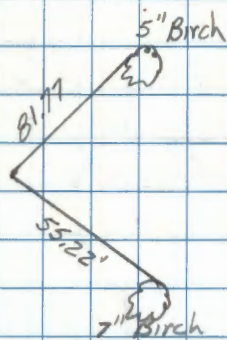
88-36-04 ✓

END OF THIS TRAVERSE

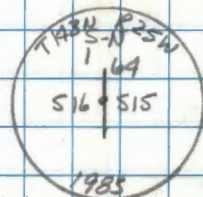
✓ OK RR 04/05/84

April, 5, 1984

23



STA 207 =

1 1/2" metal cap flush
w/road surface

END OF THIS TRAVERSE

29

24

A grid of 20 columns and 20 rows on a graph paper page. The grid is formed by blue lines on a white background. A vertical red margin line is located on the left side of the grid, approximately one-fifth of the way from the left edge of the page. The grid is empty.

25 T143N R25W sec 15 Sub

Interior traverse through sec 15

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

FS 2061 91-27-~~29~~⁵³ 271-27-49 91-27-50 271-27-45

BS 205 00-00-~~29~~³³ 180-00-28 00-00-29 180-00-26

TI 206 91-27-20 91-27-21 91-27-21 91-27-19
91-27-20 ✓

Dist 206-2061 90-15-16 269-44-35 90-15-20 1200.79 1200.78 ✓

Dist 2061-206 59-46-10 270-13-56 89-46-07 1200.80 1200.79 ✓

FS 2062 180-00-24 180-00-20 180-00-24 180-00-27

BS 206 00-00-24 00-00-16 00-00-26 00-00-23

TI 2061 180-00-00 180-00-09 179-59-58 180-00-07
180-00-02 ✓

Dist 2061-2062 90-20-21 269-39-30 90-20-26 1014.36 1014.34 ✓

Dist 2062-2061
Meters = 309.180

CKWA 4-12-84

2570.65

355.53

April 9, 1984

26

Partly cloudy, windy, cool

PC by G. Kosenko

ARR B. Ausk

T-2 S/N 265184

Red/A S/N 4863

Temp = 50°F @ 9:45 AM

BPR = 29.8 ECF = 0

1200.78 ✓

10" Balsam



17.93

STA 2061 = good spike

5.95



7 Balsam

1014.34 ✓

T143N R25W Sec 15 646

Interior traverse cont'd from pg 25

STA 1st HXR 2nd HXR 3rd HXR 4th HXR

H X

FS 2063 180-00-16 00-00-10 180-00-20 00-00-14

BS 2061 00-00-16 180-00-12 00-00-12 180-00-11

IT@ 2062 180-00-00 179-59-58 180-00-08 180-00-03

180-00-02 ✓

Dist 2062-2063 89-14-33 270-45-20 89-14-36 355.61 355.58 ✓

Dist 2063-2062 90-51-17 268-08-28 90-51-25 355.63 355.59 ✓

31

FS 2064 268-10-33 88-10-36 268-10-35 88-10-37

BS 2062 00-00-15 180-00-07 00-00-13 180-00-06

IT@ 2063 268-10-16 268-10-29 268-10-22 268-10-31 ✓

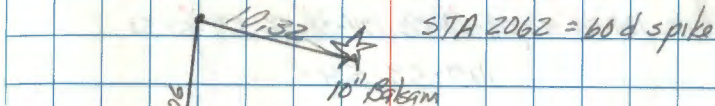
268-10-25 ✓

Dist 2063-2064 90-05-56 269-53-50 90-06-03 474.36 474.36 ✓

Dist 2064-2063 89-57-56 ~~271-35-05~~ 89-58-09 474.36 474.36 ✓

CK WA 4-18-84

April 9, 1984



355.585 ✓

4" Balsam

7" Balsam

10" Balsam

6.53

STA 2063 = 60 d spike

Approx to 1/16

April 10, 1984

Cloudy, drizzle, cool

474.36 ✓ T-2 S/N 265184

AC to B. Kosenko

Red IA S/N 4863

Arks B. Ausk

ECF = 0

G. Robertson

T143N R25W Sec 15 Sub

Interior traverse cont'd from pg 26

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

H&R

FS 2065 180-00-03 00-00-00 180-00-06 357-59-59

BS 2063 00-00-13 180-00-04 00-00-10 180-00-06

T@ 2064 179-59-50 179-57-56 179-57-56 179-59-53

179-59-54 ✓

Dist 2064-2065 88-24-38 271-35-05 88-24-47 617.27 617.03 ✓

Dist 2065-2064 91-38-36 268-21-05 91-38-45 617.27 617.02 ✓

FS 2066 180-00-20 00-00-11 180-00-25 180-00-11

BS 2064 00-00-19 180-00-14 00-00-19 00-00-14

T@ 2065 180-00-01 179-59-57 180-00-06 179-59-55

180-00-00 ✓

Dist 2065-2066 88-21-41 271-38-16 88-21-45 212.99 212.90 ✓

Dist 2066-2065 91-48-26 268-11-26 91-48-30 213.01 212.90 ✓

CK WA 4-12-84

April 10, 1984

T@ Stup
5.76

617.02 ✓

5.88
5" Birch

STA 2064 = 60d spike

4" Aspen

5.07

212.90 ✓ 6" Aspen

STA 2065 = 60d spike

T143N R25W Sec 15 Sub

Interior traverse cont'd from pg 27

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

H &

FS 2067 91-42-~~18~~⁰¹ 271-41-51 91-41-57 271-41-52BS 2065 00-00-~~18~~¹⁹ 180-00-05 00-00-06 180-00-04

TIC 2066 91-41-55 91-41-46 91-41-51 91-41-48

91-41-50 ✓

Dist 2066-2067 88-33-49 271-25-35 88-34-07 462.97 462.83 ✓

Dist 2067-2068 91-30-27 268-29-21 91-30-33 462.99 462.83 ✓

FS 2068 180-00-46 00-00-42 180-00-52 00-00-38

BS 2066 00-00-16 180-00-22 00-00-27 180-00-21

TIC 2067 180-00-30 ~~180-00-20~~¹⁸⁰ 180-00-25 180-00-17

180-00-23 ✓

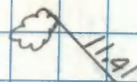
Dist 2067-2068 89-22-23 270-37-31 89-22-26 433.91 433.88 ✓

Dist 2068-2067 70-41-33 269-18-21 90-41-36 433.90 433.87 ✓

CKWA 4-12-84

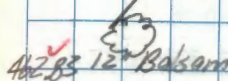
April 10, 1984

10" Balsam



11.91

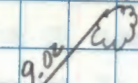
8.51



462.83

12" Balsam

8" Birch



9.06

6.50



7" Aspen

STA 2067 = 60d spike

433.88 ✓

STA 2066 = 60d spike
Approx 10% for C 1/4

T43N R25W Sec 15 SW

Interior traverse cont'd from pg 28

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

H2

FS 2069 180-00-18 00-00-22 180-00-23 00-00-23

BS 2067 00-00-08 180-00-11 00-00-07 180-00-14

IT@ 2068 180-00-10 180-00-11 180-00-16 180-00-09

180-00-12 ✓

Dist 2068-2069 93-40-¹⁰ 266-19-39 93-40-16 343.38 342.68 ✓

Dist 2069-2068 86-25-58 273-33-42 86-26-08 343.34 342.68 ✓

FS 2160 266-30-17 86-30-07 266-30-13 86-30-03

BS 2068 00-00-20 180-00-23 00-00-25 180-00-21

IT@ 2069 266-29-57 266-29-44 266-29-48 266-29-42

266-29-48 ✓

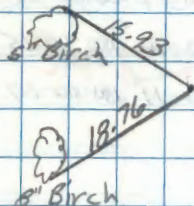
Dist 2069-2160 79-38-08 280-21-26 79-38-21 180.46 177.52 ✓

Dist 2160-2069 100-33-15 259-26-45 100-33-15 180.57 177.52 ✓

CKWA 4-12-84

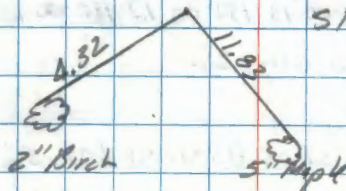
April 11, 1984

ECF=0

Cloudy drizzle, windy, mild
Same crew as previous day

STA 2068 = God spike

342.68 ✓



STA 2069 = God spike

177.52 ✓

T143N R25W Sec 15 Sub

Interior transect, cont'd from pg 29.

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

FS 2161 180-00-29 00-00-22 180-00-27 00-00-22

BS 2069 00-00-25 180-00-15 00-00-16 180-00-15

TR 2160 180-00-04 180-00-07 180-00-11 180-00-07

180-00-07 ✓

0st 2160-2161 91-52-29 268-07-10 91-52-40 442.95 442.71 ✓0st 2161-2160 88-12-11 271-47-33 88-12-19 442.94 442.72 ✓

FS 2162 180-00-18 00-00-13 180-00-20 180-00-00

BS 2160 00-00-10 180-00-00 00-00-08 180-00-15

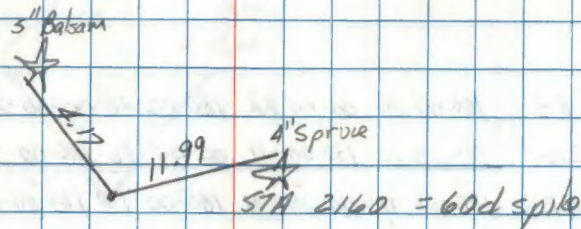
TR 2161 180-00-08 180-00-13 180-00-12 180-00-15

180-00-12 ✓

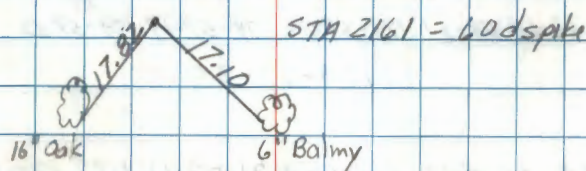
0st 2161-2162 83-07-40 276-52-05 83-07-48 409.56 406.62 ✓0st 2162-2161 97-02-47 262-56-55 97-02-56 409.70 406.60 ✓

CK WA 4-12-84

April 11, 1984



442.72 ✓



406.61 ✓

T143N R25W Sec 15 sub

Interior traverse cont'd from pg 30

STA 1st HAR 2nd HAR 3rd HAR 4th HAR

HX

FS 2163 180-00-26 00-00-22 180-00-26 00-00-24

BS 2161 00-00-11 180-00-11 00-00-16 180-00-15

TP 2162 180-00-15 180-00-11 180-00-10 180-00-09

180-00-11 ✓

Dist 2162-2163 89-43-34 270-16-14 89-43-40 487.40 487.39 ✓

Dist 2163-2162 90-20-44 269-59-06 90-20-49 487.41 487.40 ✓

FS 224 179-59-28 359-59-25 179-59-27 359-59-24

BS 2162 00-00-12 180-00-00 00-00-08 179-59-59

TP 2163 179-59-11 179-59-25 179-59-19 179-59-25

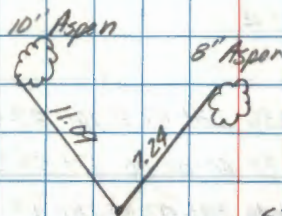
179-59-20 ✓

Dist 2163-224 91-08-12 268-51-40 91-08-16 1127.10 1126.88 ✓

Dist 224-2163 88-51-16 271-08-28 88-51-24 1127.10 1126.88 ✓

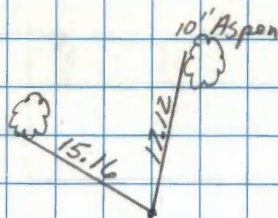
CK WA 4-12-84

April 11, 1984



STA 2162 = 60d spike

487.40 ✓



STA 2163 = 60d spike

1126.88 ✓

T143N R25W Sec 15 Sub

Interior traverse cont'd from pg. 31

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

H 4

FS 223 281-47-37 101-97-36 281-47-37 101-47-47

BS 2163 00-00-00 179-59-56 00-00-00 179-59-56

T@ 224 281-47-37 281-47-40 281-47-37 281-47-51

281-47-41

CK WA 4-12-84

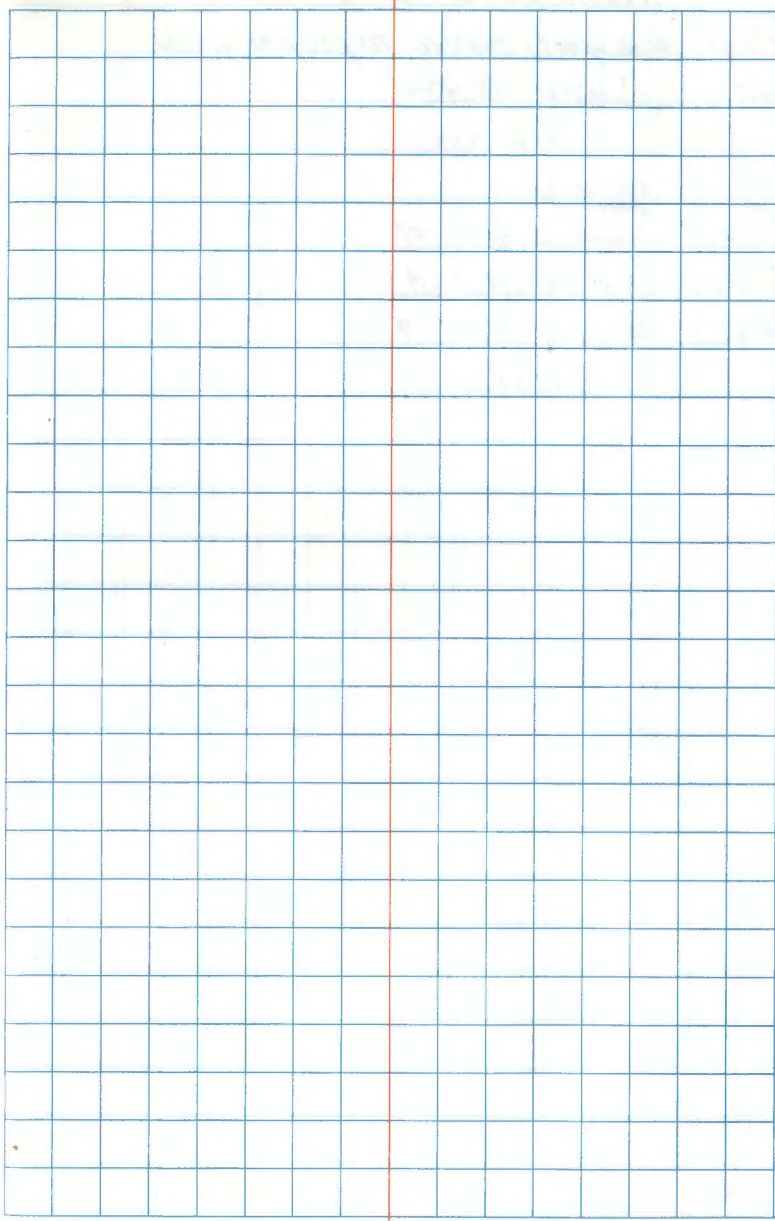
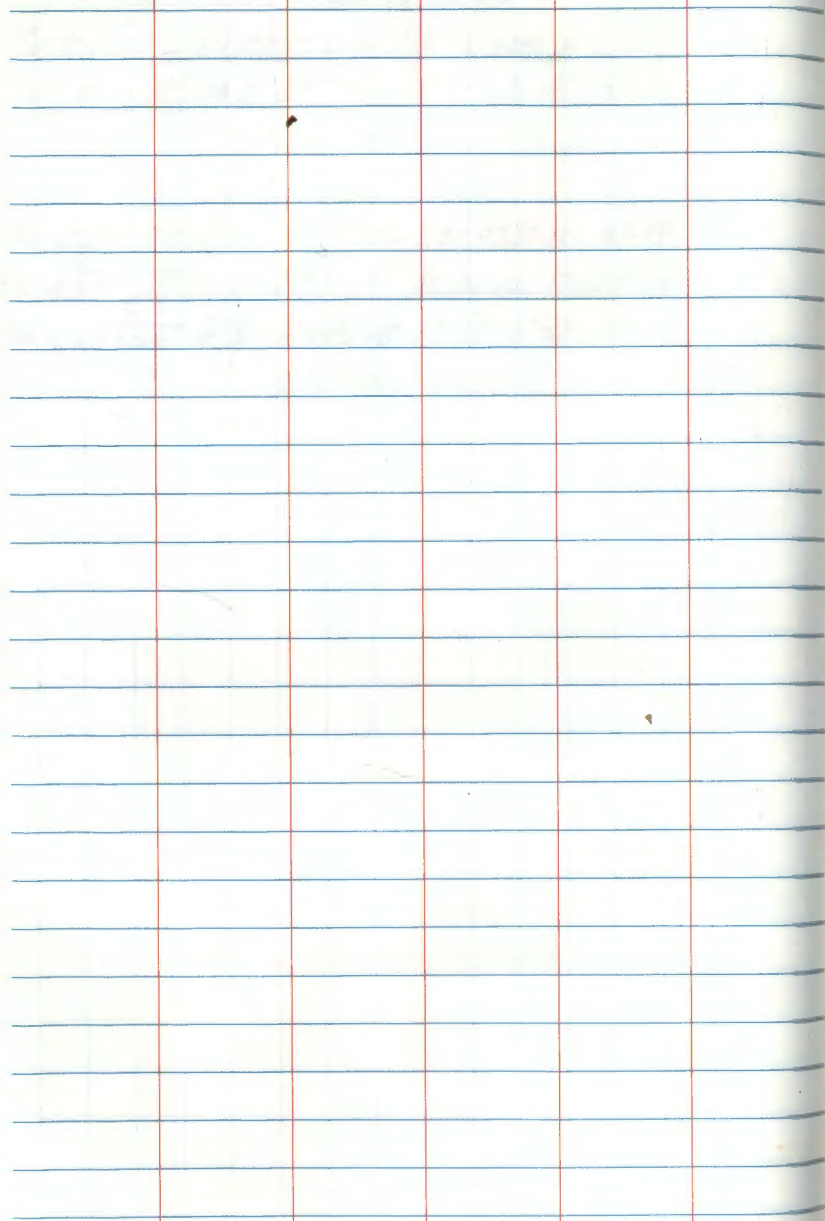
T143N R25W

E 1/4

S 22

1983

STA 224=



34

T143N R25W Sec 15 Sub

Angles @ property corners to property line

STA 1st HAR 2nd HAR

HX

~~342-00-53~~FS 214 ~~342-01-21~~ 162-00-47BS 220 ~~359-59-52~~
~~00-00-20~~ 179-59-38

TO 221 342-01-01 342-01-09

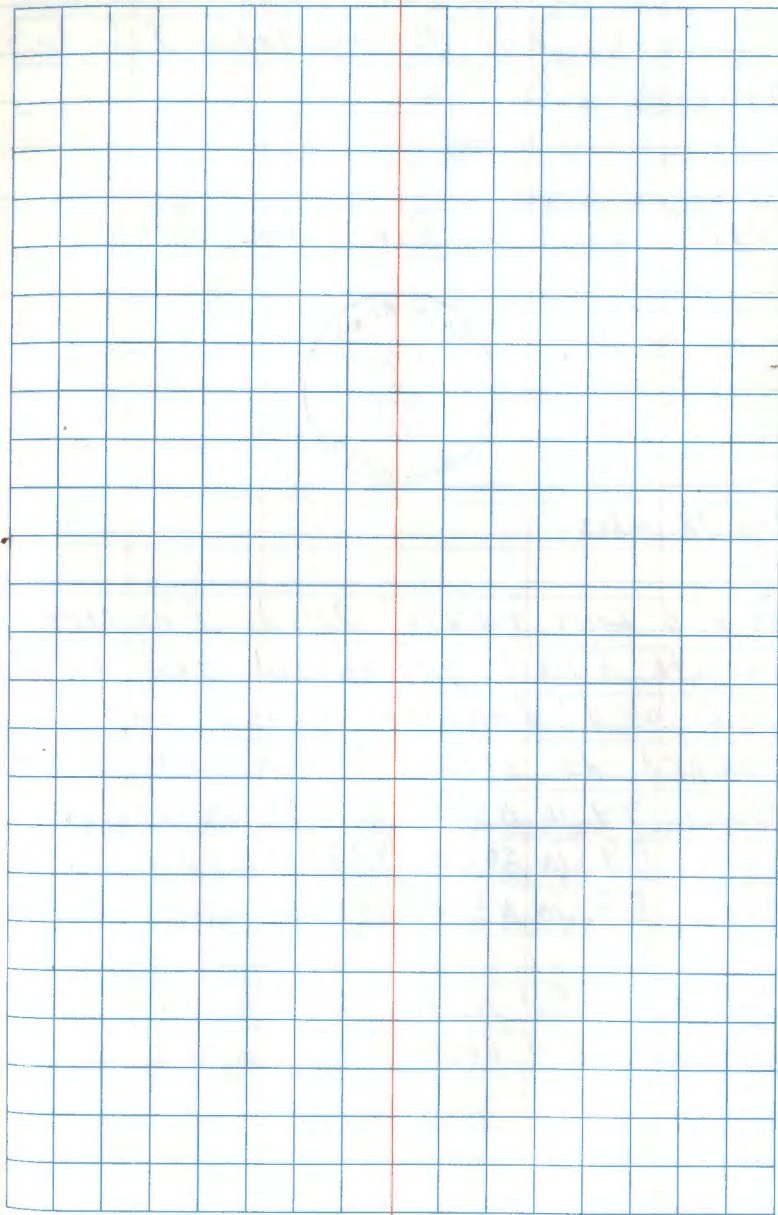
342-01-05

34

April 12, 1984

Cloudy, very windy

Same crew as previous
day

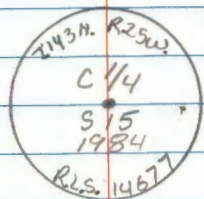


INVERSE AND MONUMENTATION INFO to SW

STA 1000 C/4 S15

USED STATION FOR THIS CORNER

Decl = 5° East



Up 18 inches

SET A 5' LONG BY 2 1/2" OUTSIDE DIAMETER
CONCRETE FILLED GALVANIZED IRON PIPE
WITH A 3" DIAMETER BRASS CAP
STAMPED AS SHOWN FROM WHICH:

w. Spruce	9.4 IN	N41°E	36.03 ft. to 16d NAIL IN
w. Birch	8.9 IN	S67°E	42.87 ft. to 16d NAIL IN
w. Birch	8.5 IN	N33°W	25.87 ft. to 16d NAIL IN

Metal FENCE Post North 3.0' W/54-2

Metal FENCE Post East 3.0' W/54-2 & 54-9

APRIL 25, 1984

CLEAR Mild BREEZE

PC GLEN KOSENKO

Bill AUSK

GREG, ROBERTSON

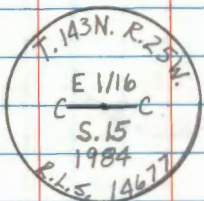
SE FACE, double BLAZE, SCR. "C/4 S15 BT" w/ 60d SPIKE
SW FACE, double BLAZE, SCR. "C/4 S15 BT" w/ 60d SPIKE
SW FACE, double BLAZE, SCR. "C/4 S15 BT" w/ 60d SPIKE

T143N R25W Sec 15 Sub

L-16

Inverse and Monumentation info to set
STA 1001, CE 1/16 S 15

Used sta for this corner



Decl: 5° East

Up 18 inches

Set a 5 ft long by 2½ in. outside diameter
concrete filled galvanized iron pipe with
a 3 in. diameter brass cap stamped as
shown from which:

R. Maple, 4.8 in, 543° E, 11.78 ft to 16d nail in
R. Maple, 6.8 in, 527° W, 22.77 ft to 16d nail in
R. Pine, 19.5 in, N18° W, 86.91 ft to 16d nail in

Metal fence post south, 3.0 ft w/54-2 + 54-9
Metal fence post west, 3.0 ft w/54-2.

April 25, 1984

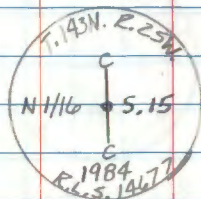
Clear, mild, breeze
PC, ~~by~~ G. Kasenko
Ardes - G. Robertson
B. Ausk

sw face, double blazed, scr: "CE 1/16 S 15 BT" w/60d spike
E face, double blazed, scr: "CE 1/16 S 15 BT" w/60d spike
E face, double blazed, scr: "CE 1/16 S 15 BT" w/60d spike

T143N R25W Sec 15 Sub
Inverse and Monumentation info to set
STA 1005, CN 1/16 Sec 15

Used STA for corner position

$\text{Decl} = 5^\circ \text{E}$



Set a 5 ft long by $2\frac{1}{2}$ in. outside diameter
concrete filled galvanized iron pipe with a 3 in
diameter brass cap, stamped as shown, up 1.5 ft.

From which:

W. Birch 7.8 in, $N44^\circ E$, 37.28 ft to 16d nail
Cedar 10.8 in, $S22^\circ E$, 31.47 ft to 16d nail in
Cedar 10.9 in, $S48^\circ W$, 83.47 ft to 16d nail in

Metal fence post, south, 3.0 ft w/54-2

Metal fence post, west, 3.0 ft w/54-2 & 54-9

April 25, 1984

Clear, mild, breeze

PC # B. Kosenko

Aides B. Ausk

G. Robertson

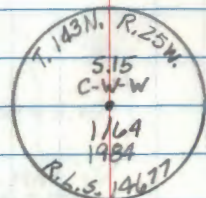
in NW face, double blazed, scr: "CN 1/16 S15 BT" w/60d spike
NE face, double blazed, scr: "CN 1/16 S15 BT" w/60d spike
NW face, double blazed, scr: "CN 1/16 S15 BT" w/60d spike

T143N. R25W Sec 15 Subdivision

Inverse and Monumentation info

STATION C-W-W 1/64 S 15

Use traverse sta for this corner

Decl = $5^{\circ} E$ 

Set a 5 ft long by $2\frac{1}{2}$ in. outside diameter
concrete filled galvanized iron pipe with a
3 in. diameter brass cap stamped as shown,
up 18 inches from which:

Aspen 5.4 in $N52^{\circ}W$, 7.95 ft to 16d nail in
^{700 Pine} Cedar 13.5 in $S82^{\circ}E$, 62.93 ft to 16d nail in
W. Spruce 8.1 in $S35^{\circ}E$, 49.53 ft to 16d nail in

Metal fence post, North, 3.0 ft w/54-2, 5

Metal fence post, South, 3.0 ft w/54-2, 54-9

April 16, 1984

Clear windy, mild

PC by G. Kosenko

Aides - B. Ausk

G. Robertson

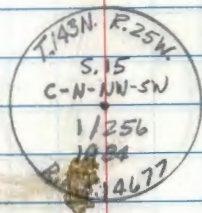
N. face, double blazed, scr "C-W-W 1/64 S 15 BT" w/60d spike
N. face, double blazed, scr "C-W-W 1/64 S 15 BT" w/60d spike
NE face, double blazed, scr: "C-W-W 1/64 S 15 BT" w/60d spike
All BT's are painted Red

40 T143N R25W Sec 15 Subdivision L, M-13, 14

Inverse and Monumentation info to set
STA 1013 C-N-NW-SW 1/256

Use traverse sta for this corner

Decl = $5^{\circ} E$



Up 18 inches

Set a 5/8 inch by 9 ft long Aluminum
Drivable Rod with a 3/4 inch
Aluminum Cap stamped as shown.

From which:

B. Spruce 9" N $6^{\circ} E$ 34.29' to 16d nail on

W FACE Double BLAZE Scribed "C-N-NW-SW 1/256 BT"

Ash 116" ~~N $4^{\circ} E$~~ ^{S $46^{\circ} E$} 11.93' to 16d nail on

NE FACE Double BLAZE Scribed "C-N-NW-SW 1/256 BT"

Ash 8.7" N $43^{\circ} W$ 28.59' to 16d nail on

SW FACE Double BLAZE Scribed "C-N-NW-SW 1/256 BT"

Fence Post North 2.65' W/ $54.2^{\circ} E$ 54-9

Fence Post West 3.0' W/ 54.2°

40

April 16, 1984

Clear, windy, mild

PC, to G. Kosenko

Ausks - B. Ausk

- G. Robertson

MAY 4, 1984

B. Ausk

SET CORNER

G. Robertson

AND RED LINED W. to Road

w/ 60d spike

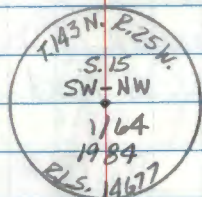
w/ 60d spike

w/ 60d spike

T143N R25W Sec. 15 Subdivision
Inverse and Monumentation info to set
STA 1016 SW-NW-1/4A

Use traverse sta 2093 to set this corner

Decl = 5° East



Set a 5 ft long by $2\frac{1}{2}$ in outside diameter
concrete filled galvanized iron pipe with a
3 in. diameter brass cap stamped as shown
up 18 inches from which:

Aspen 5.3 in. $N45^{\circ}E$ 50.91 ft to 16d nail in
Ash 7.5 in. $S52^{\circ}E$ 48.24 ft to 16d nail in
Bur Oak 9.7 in. $N66^{\circ}W$ 14.04 ft to 16d nail in

Metal fence post, south 3.0 ft, w/54-2
Metal fence post, west 3.0 ft, w/54-2, 54-9

April 16, 1984

clear, windy, mild

PC by B. Kosenko

Aids - B. Husk

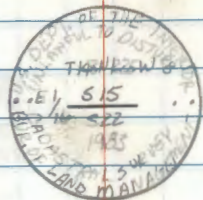
- G. Robertson

SE face, double blazed scr: "SW-NW 1/4 S15 BT" w/60d spike
SW face, double blazed scr: "SW-NW 1/4 S15 BT" w/60d spike
south face, double blazed scr: "SW-NW 1/4 S15 BT" w/60d spike

All BT's painted red

April 25, 1984 Recovery by: G. Kosenko
A. Robertson
B. Ausk

Recovered a 2 1/2 in. outside diameter ~~in~~
aluminum pipe with a 3 inch diameter
aluminum cap stamped



up 4 inches

From which:

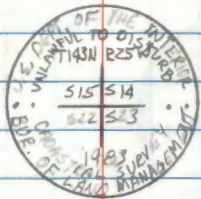
Birch 9.8 in, S50°W, 7.74 ft to 16d nail in
NW face, double blazed, scr "E 1/16 52287" w/60d spike
W. Oak 6.5 in, N14°W 7.86* ft to 16d nail
in SW face, double blazed scr "E 1/16 515 BT w/60d spike

Established

P. Oak 11.2 in, S57°E, 15.54 to 16d nail in
north face, double blazed, scr "E 1/16 52287" w/60d spike
Fence Post North 3.0' w/54-2 E 54-9
Fence Post South 3.0' w/54-2

April 25, 1984 Recovery by: G. Kosenko
B. Ausk
G. Robertson

Recovered a 2 1/2 in. outside diameter
aluminum pipe with a 3 in. diameter aluminum
cap stamped:



up 1.0 feet

From which:

Sugar Maple, 5.1 in N76°E, 15.41 ft to 16d nail in
south face, double blazed, scr: "XBT" w/60d spike

Elm, 5.2 in, S13°E, 34.08 ft to 16d nail in
NE face, double blazed, scr: "XBT" w/60d spike

Elm, 4.6 in, S46°W, 0.94 ft to 16d nail in
NW face, double blazed, scr: "XBT" w/60d spike

Sugar Maple, 7.9 in, N26°W, 8.49 ft to 16d nail in
SW face, double blazed, scr: "T143N R25W S15 BT" w/60d spike

Metal fence post, north 4.0 ft w/54-2+54-9

Metal fence post, south 5.0 ft w/54-2

See Book 1, pp 75

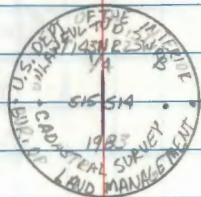
April 25, 1984 Recovery by: G. Kosenko

B. Ausk

G. Robertson

Recovered a ~~5 ft long by~~ 2 1/2 in outside diameter aluminum pipe with a 3 in. diameter aluminum cap stamped:

up 1.0 ft



From which:

Balsam 7.8 in, $580^{\circ}E$ 39.25 ft to 16d nail in south face, double blazed, ser: "14514BT" w/60d spike

Balsam 9.2 in, $N65^{\circ}W$ 7.48 ft to 16d nail in north face, double blazed, ser: "14515BT" w/60d spike

Metal fence post, south, 4.3 ft w/54-2, 54-9

Established:

W. Birch, 10.1 in, $545^{\circ}E$, 36.16 ft to 16d nail in SW face, double blazed, ser: "14514BT" w/60d spike

Metal fence post, east, 3.0 ft w/54-2

All trees painted red

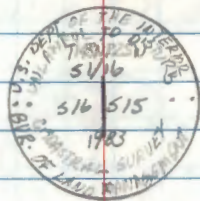
See Book 1, PP 78

T143N R25W Sec 15 subdivision M-13

5116 16/15

May 1, 1984 Recovery by G. Kosenko
B. AuskRecovered a 2 1/2 outside diameter aluminum
pipe with a 3 inch diameter aluminum
cap stamped

Decl = 5° East



up 0.7 feet

From which:

Ash 3.3 in N78°E 19.40 ft to 16d nail in
north face, double blazed, ser: "5116 515BT" w/60d spikeAsh 6.5 in N79°W 20.20 ft to 16d nail in
south face, double blazed, ser: "5116 516BT" w/60d spike

Established:

Ash 9.7 in N01°E 30.12 ft to 16d nail in
west face, double blazed, ser: "5116 515BT" w/60d spike

Metal fence post, north, 3.0 ft w/54-2

Metal fence post, south, 3.0 ft, w/54-2, 54-9

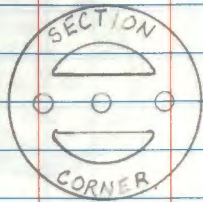
All BT's and posts painted red

SW Sec Cor sec 15

May 1, 1984 Recovery by: B. Kosenko

B. Husk

Recovered a 3.5 inch diameter top
of an iron monument set flush with
the ground and marked:

Ded: 5° East

From which:

Oak 8.3 in $S50^{\circ}E$ 36.27 ft to 1/2" nail in
SW face, double blazed, scr: "BT" w/60d spikeOak 10.0 in $S17^{\circ}W$ 9.40 ft to 1/2" nail in
west face, double blazed, scr: "BT" w/60d spikeOak 10.6 in $S78^{\circ}W$ 35.21 ft to 1/2" nail in
North face, double blaze, scr: "BT" w/60d spikeOak 8.5 in $N34^{\circ}W$ 34.95 ft to 1/2" nail in
NE face, double blaze, scr: "BT" w/60d spike

Established:

Metal fence post, north, 5.0 ft w/54-2, 54-9

Metal fence post, east, 3.0 ft w/54-2

See Book 2, pp 11

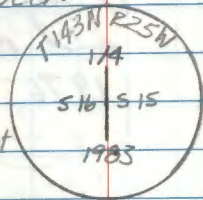
Summer 1983 Cass County Surveyor
found evidence traceable to
original position and set
Co. Monument, BLM then
resurveyed the SE $\frac{1}{4}$ of Twp
and accepted Co. Monument.
1976 Ties void.

Ken Whitcomb

West 1/4 corner sec 15

May 1, 1984 Recovery by G. Kasenko
B. HuskRecovered a 1 1/2 inch diameter brass cap
flush w/ shoulder of road (will reset 1.0 ft
below surface at later date) stamped:May 2, 1984 reset
monument 1.0 ft below
road surface

Decl = 5° East

EstablishedAsh 6.3 in. S 77° E, 92.04 ft to 1/2" nail in
north face, double blazed, sec. 14 S15 BT w/ 60 d spikeAsh 9.2 in. N 50° E, 95.22 ft to 1/2" nail in
SE face, double blazed, sec. 14 S15 BT w/ 60 d spikeTie to E. of county road #65, west
16.25 ft.

Painted all BT's red except the ring

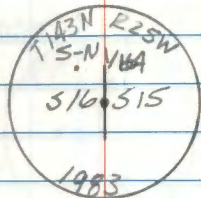
T143N R25W Sec 15 Sub

S-N 1/4 16/15

May 1, 1984 Recovery by G. Kosenko
B. Husk

Recovered a 1 1/2 inch brass cap
set flush in north bound lane
of county road #65, stamped

Decl = 5° East



From which:

Birch 5.6 in, N35°E 81.77 ft to 16d nail in
NW face, double blazed, scr: "S-N 1/4 S15 BT" w/6d spike

Birch 7.8 in, S55°E 55.22 ft to 16d nail in
south face, double blazed, scr: "S-N 1/4 S15 BT" w/6d spike

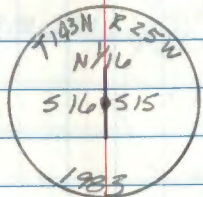
County road #65 is 7.30 ft due west

BT's painted red except the ring

T143N R25W Sec 15 Sub

N 1/16 16¹/₁₅May 1, 1984 Recovery by: G. Kosenko
B. AdskRecovered a 1 1/2 inch brass cap stamped
as shown and set flush with county
road #65 south bound lane

Decl: 5° East



From which:

B. Pine, 8.6 in, 566°W, 72.40 ft to 1/2d nail in
NW face, single blaze, scr: "N 1/16 516 BT" partly overgrown
with a 60d spike.

Established

B. Pine, 9.4 in, 538°W, 117.60 ft to 1/2d nail in
NW face, double blaze, scr: "N 1/16 516 BT" w/60d spikeR. Pine, 9.9 in, N88°W, 115.17 ft to 1/2d nail
in south face, double blazed, scr: "N 1/16 516 BT" w/60d spike

E. of county road #65 is east, 1.70 ft

50 T143N R25W sec. 15 Subdivision J-13

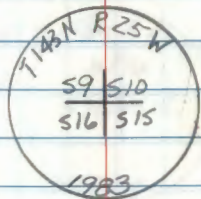
NW section corner of sec 15

May 1, 1984 Recovery by: G. Kosenko

B. Ausk

Recovered a $1\frac{1}{2}$ inch diameter brass
cap 1.0 feet below old road surface
stamped:

decl = 5° East



From which:

Reference monument stamped:

$2\frac{1}{2}$ in. outside diameter

aluminum pipe with a 3 in diameter

aluminum cap up 6 inches.

$N22^{\circ}E$, 95.40 ft

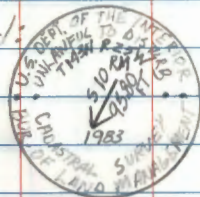
Power pole, $N46^{\circ}W$, 57.06 ft to 16d nail in
NE face, nail pounded all the way in.

Established:

Metal fence post, adjacent to Reference monument
with 54-9

Aspers 5.8 in, $S73^{\circ}W$, 79.09 ft to 16d nail in
north face, double blazed set: "516BT" w/60d spike

Metal fence post, $S42^{\circ}E$, 87.75 ft w/ BT tag



50

T143N R25W Sec 15 Sub

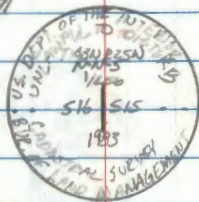
L1 M-13

N-N-S 1/256 16 1/15

May 2, 1984 Recovery by: G. Kasenko
B. Ausk

Recovered a 3 inch diameter aluminum
cap set 1 in above surface of shoulder
Removed monument and found it to be
a 2 1/2 inch outside diameter aluminum pipe (by 3/4")
Reset monument 1.0 ft under shoulder
surface. Cap stamped as shown

Decl = 5° East



From which:

Ash, 5.5 in, N65°E, 66.61 ft to 16d nail in
SE face, double blazed, ser: "X BT" w/60d spikeElm, 10.2 in, S70°E, 72.83 ft to 16d nail in
north face, double blazed ser: "X BT" w/60d spike

BT's painted red except ring

E of Cass county road #65, west 13.00 FT

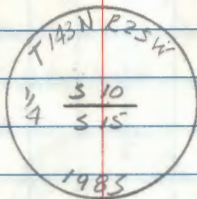
♂ T143N R25W Sec 15 Sub J-15

North 1/4 Section 15

May 2, 1984 Recovery by: G. Kosenko
B. Husk

Recovered a 1 1/2 inch diameter brass
cap set in ~~west~~^{east} bound lane of Cass
County road # 65, 3 inches below road
surface, stamped as shown:

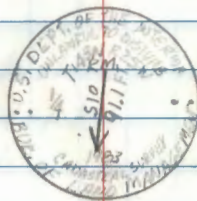
Decl = 5° East



From which:

Reference Monument - 2 1/2 inch outside
diameter aluminum pipe with a 3 inch
diameter aluminum cap stamped
as shown, up 6 inches.

N02°E 91.06 FT



Oak 4.9 in N31°W 129.08 FT to 16d nail
in east ~~lan~~, double blazed, ser: "1/4 510 65" w/60d spike

Established:

Metal fence post, north of R.M., 1.0 FT
w/54-9

♂ Cass County road # 65, North, 5.5 ft

53 T14314 R25W SEC 15 SUB N-15

South 1/4 SEC. 15

MAY 3, 1984 RECOVERED BY G. KOSENKO

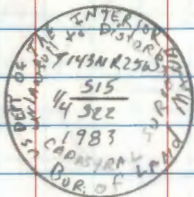
B. AUST

G. ROBERTSON

RECOVERED a 3 1/4" ALUMINUM CAP 6"

Above ground stamped as shown:

Decl. = 5° EAST



FROM WHICH:

B. SPRUCE N27°E 7.9" 2.78' to 16d NAIL ON

NW FACE Double BLAZE scribed "14 S15 BT"

TAMARACK S60°W 6.2" 7.99' to 16d NAIL ON

N FACE Double BLAZE scribed "14 S22 BT"

Established

TAMARACK S45°E 6.3" 23.68' to 16d NAIL ON

SW FACE Double BLAZE scribed "14 S22 BT"

FENCE Post South 3.0' w/54-2

FENCE Post WEST 3.0' w/54-2E 54-4

w/60 d SPIKE

w/60 d SPIKE

w/60 d SPIKE

W 1/16 SEC 15, 22

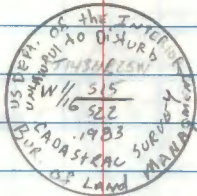
MAY 3 1984 RECOVERED BY G. KOSHYKO

B. AUSK

G. ROBERTSON

RECOVERED a 3/4" ALUMINUM CAP 4" ABOVE
GROUND STAMPED AS SHOWN:

Decl. = 5° EAST



From which:

S. Maple 4.3" S40°E 17.20' to 16d Nail on

W FACE Double BLAZE Scribed "X BT"

BASSWOOD 11.5" N34°W 11.60' to 16d Nail on

SW FACE Double BLAZE Scribed "W 1/16 S15 BT"

Established

S. Maple 8.9 S31°W 46.94' to 16d Nail on

SE FACE Double BLAZE Scribed "W 1/16 S22 BT"

FENCE Post East 5.0' W/54-2&54-9

W/60d SPIKE

W/60d SPIKE

W/60d SPIKE

T143N R25W SEC. 15 SUB. N-13,14

MC EAST side of RIVER

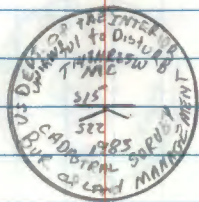
May 3, 1984 Recovered By G. ROSENKO

B. AUSK

G. ROBERTSON

Recovered A 3/4" Aluminum Cap Above
ground stamped as shown:

Decl. 50° EAST



From which:

Ash 5.6" N70°E 30.75' to 16d NAIL ON
NW FACE Double BLAZE Scribed "X BT"Ash 5.5" S71°E 43.09' to 16d NAIL ON
N FACE Double BLAZE Scribed "X BT"

FENCE Post West 3.0' w/542854-9

w/60d SPIKE

w/60d SPIKE

56 V-19 SEE Book 1 Pg 70

QUARTER COR. SECS 26-35

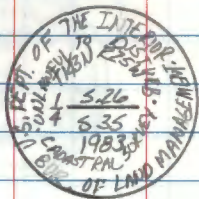
August 9, 1985 Recovery by: G. Kosenko

B. Aask

G. Robertson

Recovered a 2½ inch outside diameter
aluminum pipe with a 3¼ inch diameter
domed aluminum cap stamped
up 6 inches from which:

Decl = 5° East



Aspen 6.9, S19°E, 25.25 ft to 16d nail in east
face, single blaze, overgrown slightly, "535 BT" w/60d spike

Aspen 12.1 in, N50°W, 12.46 ft to 16d nail in south
face, single blaze, overgrown, w/60d spike

Established.

Sugar Maple, 4.8 in, S60°W, 11.51 ft to 16d nail in north
face, double blaze scr: "1/4 535 BT" w/60d spike

Metal fence post, east, 3.0 ft w/54-2, 54-9

Metal fence post, west, 3.0 ft w/54-2

CARD BA.

57 X-21 SEE Book 1 Pg 56

QUARTER COR Secs 35, 36

August 9, 1985 Recovery by: G. Kosenko

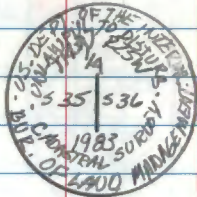
B. Aske

G. Robertson

Recovered a 2 1/2 inch outside diameter aluminum pipe with a 3 1/4 inch diameter aluminum cap

stamped as shown

up 6 inches from which:



Decl = 5° East

Aspen 10.0 in $569^{\circ}E$, 9.65 ft to alld nail in north face, single blaze scr: "1/4 536 BT" partly overgrown w/ bud spike

Aspen 11.2 in, $N09^{\circ}W$, 7.15 ft to alld nail in west face, single blaze partly overgrown, "1/4 535 BT" w/ bud spike

Establish:

Sugar Maple 4.8 in, $S11^{\circ}W$, 23.18 ft to alld nail in east face, double blaze, scr: "1/4 535 BT" w/ bud spike

Metal fence post, north, 3.0 ft w/ 54-2

Metal fence post, west, 4.0 ft w/ 54-2, 54-9

QUARTER CORNER SEC'S. 23, 24

SEE BOOK 1 PAGE 62

Ash, 5.8 in N71°E 7.02 ft to a 1/4" nail in
SE face, double blaze, scr: "1/4 524 BT" w/60d spike

Ash, 4.3 in N65°W 21.11 ft to a 1/4" nail in
S. face, double blaze, scr: "1" x BT" w/60d spike

Established

Ash, 4.5 in S35°E 11.16 ft to a 1/4" nail in
N. face, double blaze, scr: "1/4 524 BT" w/60d spike

Metal fence post, North 3.0' w/54-2 x 54-9

Metal fence post EAST 3.0' w/54-2

All TREE BLAZES AND RINGS ARE
Painted Red

60

EAST $\frac{1}{16}$ BET SECTION 30-31

1980 B.L.M.

SET 2½" X 28" ALUMINUM POST 23" IN
THE GROUND AND STAMPED:

T43N R 25W

E ½ S 30

S 31

1976

WITNESSED BY:

ASPEN 14" N 85° E 27 LKS 17.82' MKD "E ½ S 30 BT"
NOW 17" SCRIBE OVRGROWNASH 6" S 20° W 25 LKS 16.50' MKD "E ½ S 31 BT"
NOW 9" SCRIBE OVRGROWN

5/10/90 R. MAIN

Fd MONUMENT IN GOOD CONDITION

W/ BEARING TREES IN TACT.

Add NEW BT.

ASH 6" S 65° E 5.90 FT TO NAIL MKD "X BT BT"

ASH 4" N 28° E 9.22 FT TO SPK MKD "X BT"

STEEL SIGN POST 2.25 FT EAST

61

U-17 SOUTH $\frac{1}{16}$ SECTION 26-27

July-Oct 1976 BLM DEPENDENT RESURVEY Pg 25

SET ALUMINUM POST 28" x 2 1/2" 23 INCHES IN
THE GROUND. CAP MKD: T143N R25WS $\frac{1}{16}$
S27526
1976ASPEN 6" S86E 16 1/2 IKS 10.89' MKD: S $\frac{1}{16}$ S26BTASPEN 14" N65W 8 IKS 5.28' MKD: S $\frac{1}{16}$ S27BT

Aug 1983 BLM CORRECTIVE DEPENDENT RESURVEY Pg 9

RESET 1976 ALUMINUM MONUMENT 23 INCHES IN
THE GROUND. DESTROYED BEARING TREE MARKS FROM
1976.ASPEN 10" S50E 40 IKS 26.4 FT MKD: S $\frac{1}{16}$ S26BTASPEN 7" S33W 7 IKS 4.62 FT MKD: S $\frac{1}{16}$ S27BT

10/26/94 R MAIN CROUSE T143N R25W

FD BLM MONUMENT UP 8" MKD: S $\frac{1}{16}$ S27526
1983. FD 9" ASPEN SWAG S33E

7 IKS 4.62 FT (N) SCRIBE VISIBLE. FD 1/2" ASPEN (BEAVER WENDFALL) S50E 40 IKS

26.4 FT (N) TAG SCRIBE OVERGROWN.

W. OAK 11 1/2" S76W 74.65 FT To Spk. MKD: S $\frac{1}{16}$ S27BT

8 FT STEEL SIGN POST 4.0 NORTH 4.0 EAST

10/26/94 CONT. MONUMENT FALLS ON NORTH SIDE OF VERY
LARGE SLOUGH AND ON THE EDGE OF MATURE ASPEN STAND
SLOUGH AND ASPEN RUN EAST AND WEST. SUPER THICK
HARE/GRASS SURROUNDS MONUMENT.

SOUTH $\frac{1}{16}$ CORNER BET. SEC'S. 35 + 36

BLM RESURVEY 1983

REMOVED 1976 ~~MONUMENT~~ MONUMENT AND DESTROY

BT'S. TO 1976 POSITION

RESET 2 $\frac{1}{2}$ " X 28" ALUMINUM PIPE

WITH CAP MARKED

T143N R25W

S $\frac{1}{16}$

S35 | S36

1983

ASPEN 6 N75E 20 LKS = 13.20'

ASPEN 13 S10W 16 $\frac{1}{2}$ LKS = 10.89'

64 SOUTH 1/16 CORNER BET. SEC'S. 34 + 35

BLM RESURVEY 1983

COULDN'T FIND ANY EVIDENCE OF
1976 CORNER.

SET 2 1/2" X 28" ALUMINUM PIPE
WITH CAP MARKED T143N R25W

S 1/16

534 | 535

1983

ELM 10 S45E 40 LKS. = 26.40'

~~ELM~~ ASH 6 S57W 9 1/2 LKS. = 6.27'

71 NORTH 1/16 CORNER BET. SEC'S. 20421

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143N R25W

N 1/16

S20/S21

1976

CEDAR 5 N83E 19 1/2 LKS = 12.87'

CEDAR 5 S19W 15 LKS = 9.90'

71 WEST 1/16 CORNER BET. SEC'S. 28433

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143N R25W

N 1/16

S20/S21

1976

ELM 10 N85E 15 LKS = 12.87'

OAK 10 S24W 10 LKS = 7.40'

73 WEST $\frac{1}{16}$ CORNER BET. SEC'S. 30+31

BLM RESURVEY 1976

SET $2\frac{1}{2}$ " X 28" ALUMINUM POST

WITH CAP MARKED T143NR25W

W $\frac{1}{16}$ $\frac{530}{531}$

1976

PINE 12 S24E 32 LKS = 21.12'

TAM. 5 S64W 25 $\frac{1}{2}$ LKS = 16.83'

73

WEST $\frac{1}{16}$ CORNER BET. SEC'S. 30+31
BLM RESURVEY 1976
SET $2\frac{1}{2}$ " X 28" ALUMINUM POST
WITH CAP MARKED T143NR25W
W $\frac{1}{16}$ $\frac{530}{531}$
1976
PINE 12 S24E 32 LKS = 21.12'
TAM. 5 S64W 25 $\frac{1}{2}$ LKS = 16.83'

75 EAST 1/16 CORNER BET. SEC'S. 29+32

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143N R25W

E 1/16 $\frac{529}{532}$

1976

ASPEN 13 NORTH 13 1/2 LKS. = 8.91'

BALSAM 5 S66W 15 1/2 LKS. = 10.23'

BURIED CABLE SERVICE BOX 4" X 4"

30" HIGH N84W 6 LKS. = 3.96'

75 WEST 1/16 CORNER BET SEC'S. 19+20

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143N R25W

E 1/16 $\frac{529}{532}$

1976

CEDEAR 2 N84E 11 1/2 LKS. = 8.91'

CEDEAR 4 S66W 15 1/2 LKS. = 10.23'

76 WEST 1/16 CORNER BET. SEC'S, 17420

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143N R25W

W 1/16 $\frac{S17}{S20}$

1976

CEDAR 5 N24E 7 1/2 LKS = 4.95'

CEDAR 9 S54W 16 LKS = 10.56'

78 EAST 1/16 CORNER BET. SEC'S. 18+19

BLM RESURVEY 1976

SET 2 1/2" X 28" ALUMINUM POST

WITH CAP MARKED T143NR25W

E 1/16 $\frac{S18}{S19}$

1976

TELEPHONE POLE 8" N1E 142 LKS = 93.72'

STEEL SIGN POST IS SET-NORTH OF COR.

78

80 WEST $\frac{1}{16}$ CORNER BET. SEC'S. 13+24

BLM RESURVEY 1976

SET 2 $\frac{1}{2}$ " X 28" ALUMINUM POST

WITH CAP MARKED T143NR25W

W $\frac{1}{16}$ $\frac{\$13}{524}$

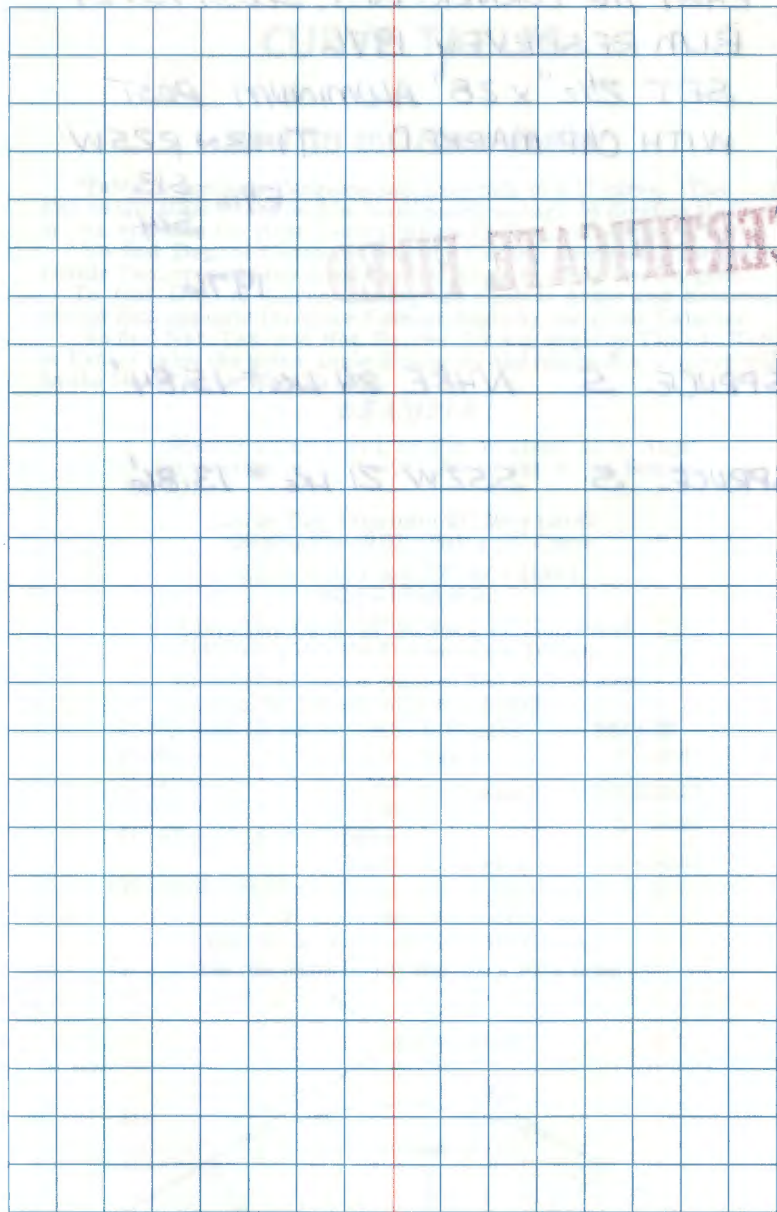
CERTIFICATE FILED

1976

TAM. 5 SZE 21 $\frac{1}{2}$ LKS. = 14.19'

TAM. 5 N63W 18 LKS. = 11.88'

80



81 EAST 1/16 CORNER BET. SEC'S. 13+24
 BLM RESURVEY 1976
 SET 2 1/2" x 28" ALUMINUM POST
 WITH CAP MARKED T143N R25W

CERTIFICATE FILED 1976
 E 1/16 $\frac{513}{524}$

SPRUCE S N48E 24 LKS. = 15.84'

SPRUCE S S52W 21 LKS. = 13.86'

CURVE TABLES

HOW TO USE CURVE TABLES

Table I. contains Tangents and External to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve.

To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent.

To find Deg. of Curve, having the Central Angle and External: Divide Ext. opposite the given Central Angle by the given External.

To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

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. I opposite 23° 20' = 120.87
 $120.87 + 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. I opp. 23° 20' = 1183.1
 $1183.1 + 10 = 118.31$.

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. =	118.47
7° 19 1/2' = " " "	543	B. C. = sta.	541+53.53
9° 49 1/2' = " " "	+50	L. C. =	2.3333
11° 40' = " " "	543+	E. C. = Sta.	543+86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' \text{ (def. for 1 ft. of } 10^\circ \text{ Cur.)} = 139.41' =$
 $2^\circ 19 \frac{1}{2}' = \text{def. for sta. } 542.$

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

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

