

T 142NR27A
Traverse
Book

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Book



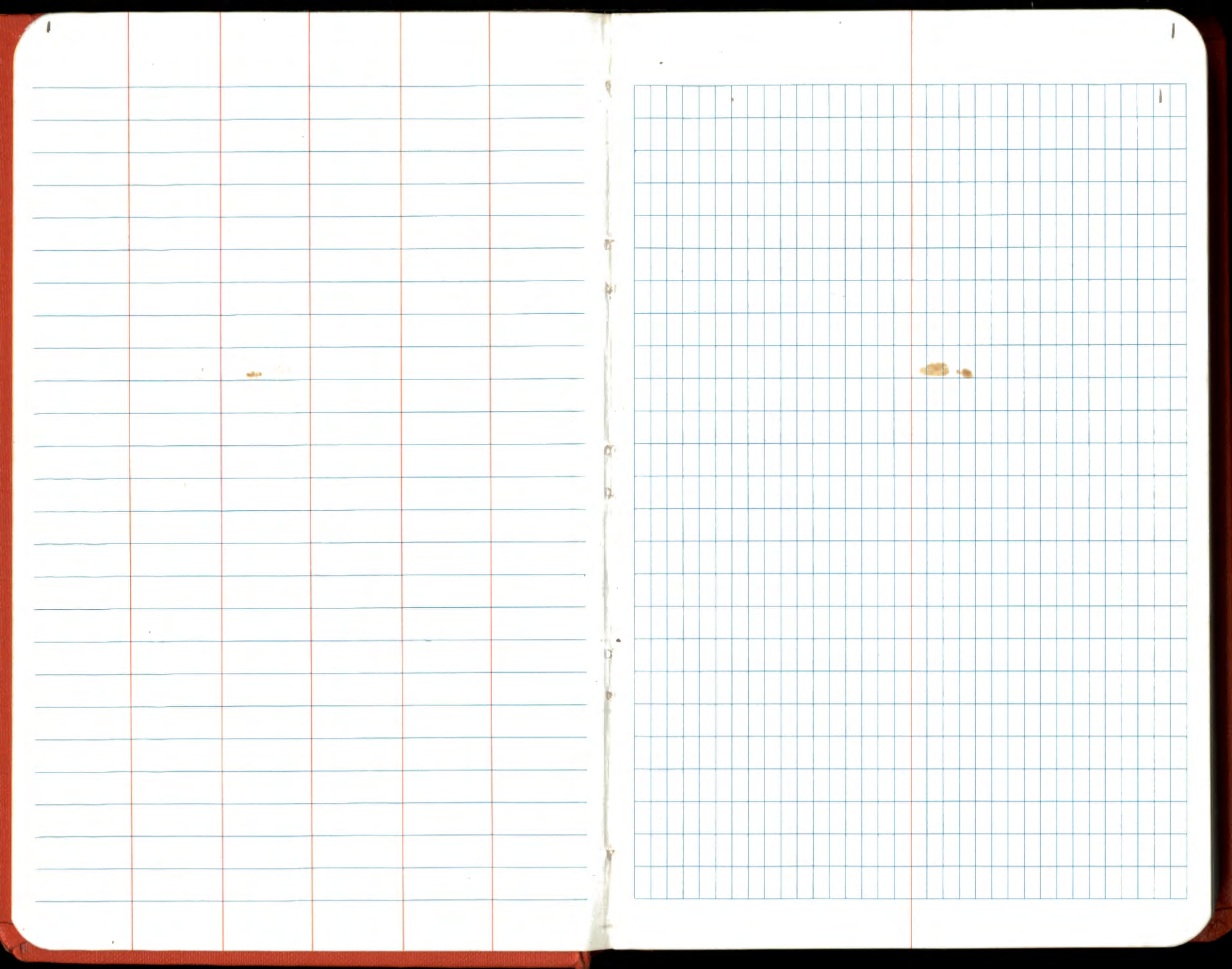
Field Book
115300

TRAVERSE
T142 N R 2¹/₂ W

USFS
CASS
COUNTY, MN

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2 Survey Traverse in Sec. 28,
T142N R27W for establishment
of C-E-NW 1/4 and C-E-W 1/4 corners

Begin survey 3/31/89 - Curt Krause, Gary Brama

FS	3	182-06-57	002-06-59	182-06-53	002-06-52	
BS	1	00-00-00	180-00-04	359-59-58	179-59-52	182-06-57
π	2	182-06-57	182-06-55	182-06-55	182-07-00	

\checkmark $\Delta = 97.14-16$

2 to 1	\checkmark	097-14-09	262-45-37	111.730	\checkmark M 34.055	110.840
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2 to 3		086-24-56	273-34-46	148.390	\checkmark M 51.325	168.061
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\checkmark $\Delta = 86-25-05$

FS	4	179-24-03	359-24-09	179-24-15	359-24-14	
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BS	2	00-00-00	180-00-01	000-00-02	180-00-06	179-24-08
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π	3	179-24-03	179-24-08	179-24-13	179-24-08	
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FS	5	179-31-45	359-31-40	163-36-38	343-36-34	
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BS	3	00-00-00	179-59-56	344-04-58	164-04-55	179-31-42
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π	4	179-31-45	179-31-44	179-31-40	179-31-39	
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\checkmark $\Delta = 92-31-55$

FT M

4 to 3		092-31-37	267-27-47	698.530	\checkmark 212.913	697.851
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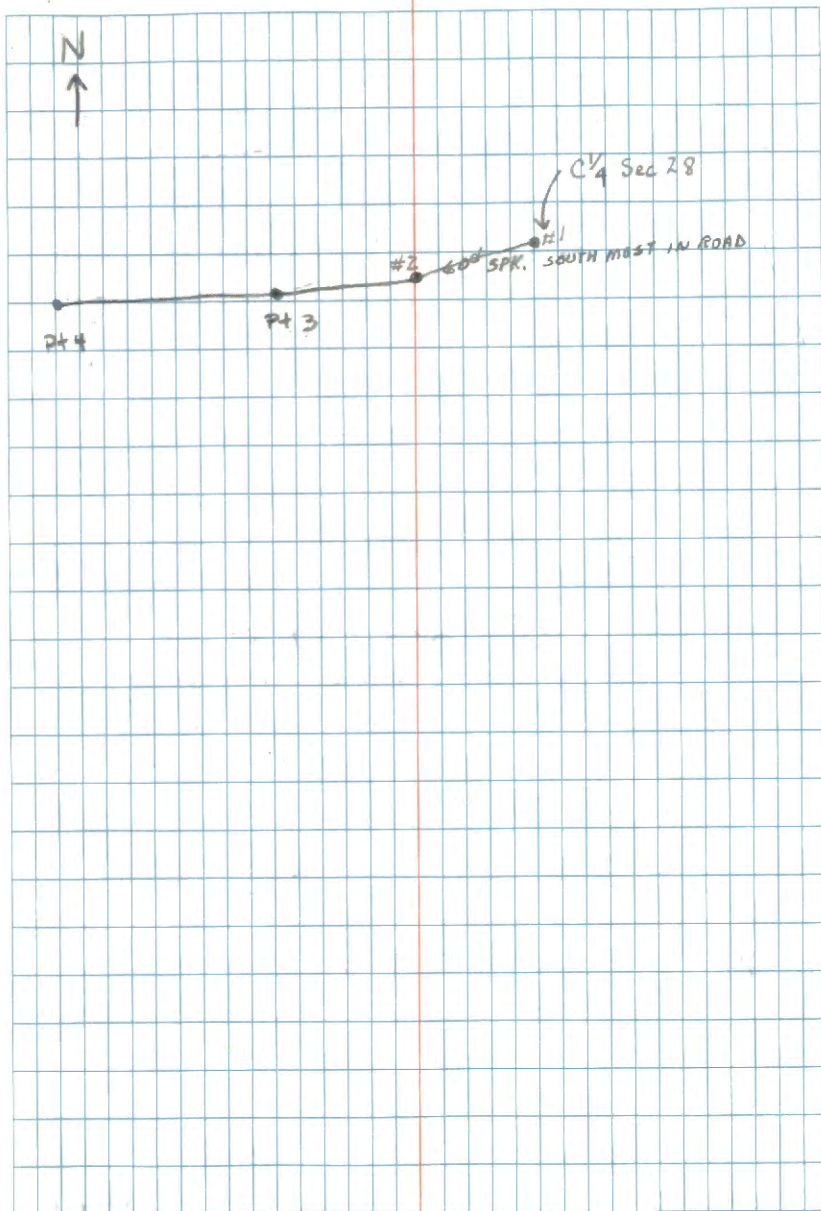
4 to 5		088-28-18	271-31-15	350.050	\checkmark 106.696	349.926
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\checkmark $\Delta = 88-28-31$

\checkmark net

Wild T2
Topcon EDM

Krause, Brama ²



FS 6	000-56-11 00-06-13	180-56-10 180-06-12	348-05-31 344-41-31	180-06-28 164-41-28	168-05-35
BS 4	001-00-00 00-00-00	181-00-00 180-09-56	348-09-23 344-45-08	180-10-04 164-49-04	168-09-28
π @ 5	359-56-11	359-56-10 359-56-10	359-56-08 359-56-23	359-56-24 359-56-24	359-56-07

359-56-09 ✓

FS 7	180-26-15	000-26-15	201-06-14	021-06-11	
BS 5	00-00-00	179-59-52	020-39-52	200-39-52	180-26-20 ✓
π @ 6	180-26-15	180-26-23	180-26-22	180-26-19	

88-26-26

6 + 0 5	88-26-12	271-33-20	350.395 ✓	106.801	350.265
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92-40-33

6 + 0 7	92-40-26	267-19-19	673.330 ✓	205.238	672.597
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FS 8	180-13-50	000-13-45	190-47-51	010-47-56	
BS 6	00-00-00	179-59-58	010-34-05	190-34-07	180-13-48 ✓
π @ 7	180-13-50	180-13-47	180-13-46	180-13-49	

FS 1	179-47-26	359-47-25	197-48-30	017-48-44	
BS 7	00-00-00	179-59-54	018-01-03	198-01-15	179-47-28 ✓
π @ 8	179-47-26	179-47-31	179-47-27	179-47-29	

87-18-24

8 + 0 7	87-18-12	272-41-25	190.560 ✓	58.081	190.349
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8 + 0 1	097-18-58	262-40-43	114.335 ✓	34.849	113.404
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97-19-08

✓ment

pt 5 is C.W.M. sec 28 - G.L.O monument



FS 2	358-33-19	178-33-23	016-16-22	196-16-22	
BS 8	00-00-00	180-00-08	017-43-12	197-43-08	358-23-15
π @ 1	358-33-19	358-33-15	358-33-10	358-33-14	

END OF DAY

4/1/89

FS 9	179-16-32	179-16-27	359-16-28	162-28-31	342-28-30
BS 2	00-00-00	00-00-00	179-59-57	343-12-01	163-12-06
π @ 3	179-16-32	179-16-27	179-16-31	179-16-30	179-16-24

3 to 9
~~94.55~~ ^{124.56} avg ~~91-34-28~~ = 91-34-08
 384.575 117.217
 268-25-13

FS ~~27~~ 359-45-25 179-45-22

BS 3 00-00-00 179-59-54

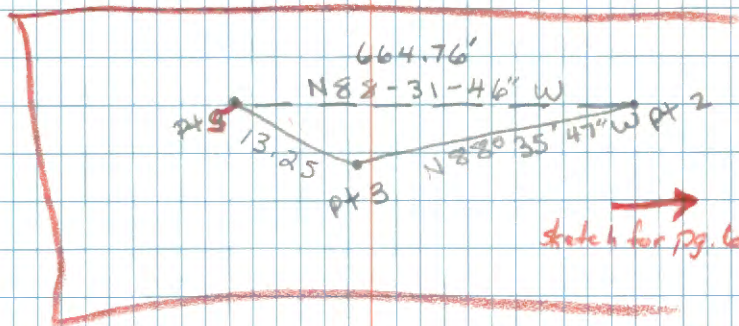
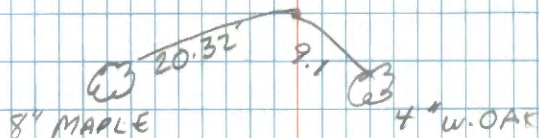
π @ 9 359-45-25 359-45-28 = 359-45-26

9 to ~~8~~ 7 88-20-47 359.63 88-20-47 109.616M 359.48

✓ mcd 4/1/89

pt 9 is 60d spike marking approx. C-E-W 1/64 corner

179-16-29



→ sketch for pg. 6

5 Survey Traverse in Sec. 28, T141N R27W
for establishment of C-E-NW/64 corner

Begin survey 4/1/89 - Curt Krause, Gary Brana

FS 9 359-54-16 179-54-13 014-58-29 194-58-35
BS 1 00-00-00 180-00-02 015-04-17 195-04-23 359-54-13 ✓
X 2 359-54-16 359-54-11 359-54-12 359-54-12

87-39-01

2 to 1 87-38-50 272-20-47 660.210 201.232 659.65

87-42-25

2 to 3 87-42-07 272-17-18 652.035 198.740 651.53

FS 4 180-07-52 ⁰⁰⁰⁻⁰⁷⁻⁵¹ ~~180-07-52~~ 196-04-57 016-05-06
BS 2 00-00-00 ¹⁸⁰⁻⁰⁰⁻⁰¹ ~~180-00-01~~ 215-57-07 195-57-08 180-07-52 ✓
X 3 180-07-52 ¹⁸⁰⁻⁰⁰⁻⁰² ~~180-07-49~~ 180-07-50 180-07-58

FS 1 359-54-26 179-54-24 008-14-24 188-14-31
BS 3 00-00-00 180-00-00 008-19-54 188-20-05 359-54-27 ✓
X 4 359-54-26 359-54-24 359-54-30 359-54-26

88-14-48

4 to 3 88-14-40 271-45-05 678.320 206.752 678.00

88-15-05

4 to 1 88-15-06 670.15 204.262 669.830
271-44-56

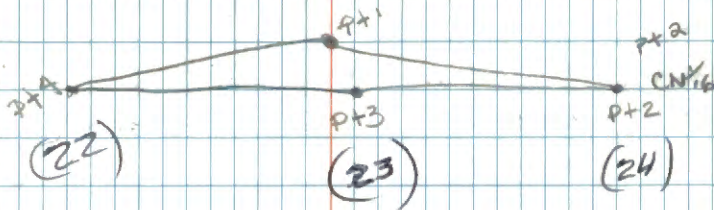
mech

W. H. T. 2
Tape on EDM

Krause, Brana 5

PT 2 is CN 1/6 Sec 28

PT 4 is NW 1/6



FS 2 180-03-24 000-03-21 168-03-18 348-03-16
 BS 4 000-00-00 179-59-55 347-59-54 167-59-50
 T 2 1 180-03-24 180-03-26 180-03-24 180-03-26 180-03-25

FS 5 183-21-37
 BS 2 00-00-00
 T 2 3 183-21-37

3 to 5 Used steel tape and set pt. 5 13.25'

~~4 to 7~~

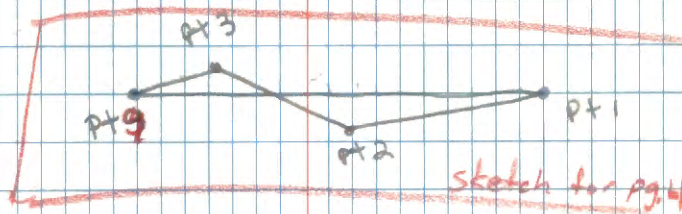
FS #1 352-50-26 172-51-15 339-02-15 159-02-42
 BS 3 00-00-00 180-00-13 346-11-39 166-11-42
 T 2 5

5 to 1 5.06 Steel tape

✓ me H 4/4/99

10" R. ORK STP
 23" R. SPAEN STP
 5.94
 PT 5

PT 5 is approx. position marking ~~center~~ corner



7

Survey from ~~SW~~^{SW} 1/4 sec 28, T142N R27W
to NW 1/4 sec. 28.

5/15/89
C. Krause
G. BRAMA

FS	20	180-01-00 270-00-47	090-01-20 090-01-20	247-10-53	067-11-16
BS	4	000-00-20	180-01-00 180-01-00	337-10-29	157-10-50
π w	5	270-00-27	270-00-20	270-00-24	270-00-26

270-00-25

FS	21	179-58-11	359-58-13	196-38-04	016-40-12 016-38-08
BS	5	000-00-20	180-00-28	016-40-17	196-37-58 196-40-29
π w	20	179-57-51	179-57-55	179-57-47	179-57- ⁴⁶ 39

179-57-49.75

Horz. Dist ft.
193.775

π w 20 to 5
95-29-43
095-29-42 264-30-17 194.670 ✓ 59.335

π w 20 to 21
89-27-28
089-27-34 270-32-37 588.935 ✓ 179.506
Horz. Dist
588.909 ft

FS	22 ^{NW 1/4} (4)	179-57-59 179-57-52	359-58-07	179-57-55	359-58-05
BS	20	000-00-20	180-00-24	000-00-14	180-00-24
π w	21	179-57- ³⁹ 32	179-57-47	179-57-41	179-57-41

179-57-42

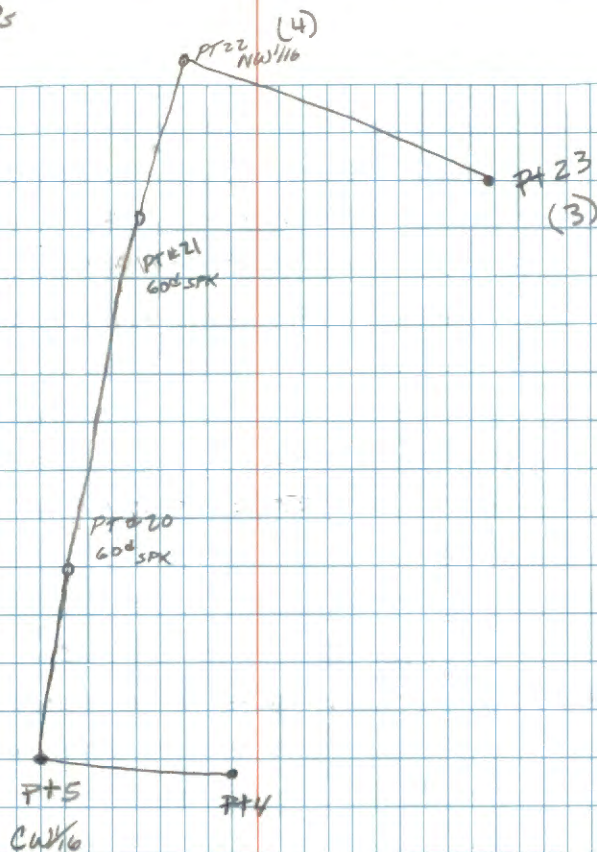
FS	23 (3)	270-20-34 98-37-43	278-37-51	285-18-50 97-49-50	278-37-53
BS	21	000-00-20	008-17-39	014-58-38 180-17-21	008-17-35
π w	22	270-20-14	270-20-12	270-20-12	270-20-18

270-20-14

π w 22 to 21
85-40-35
85-40-35 540.280 ✓ 538.742 ft
274-19-25 164.677M

Clear 70°5

7



10/4/90
C. KRALDE G. BRAMA
M. Hayes

Establishment of C-E-WX₆ of sec 28

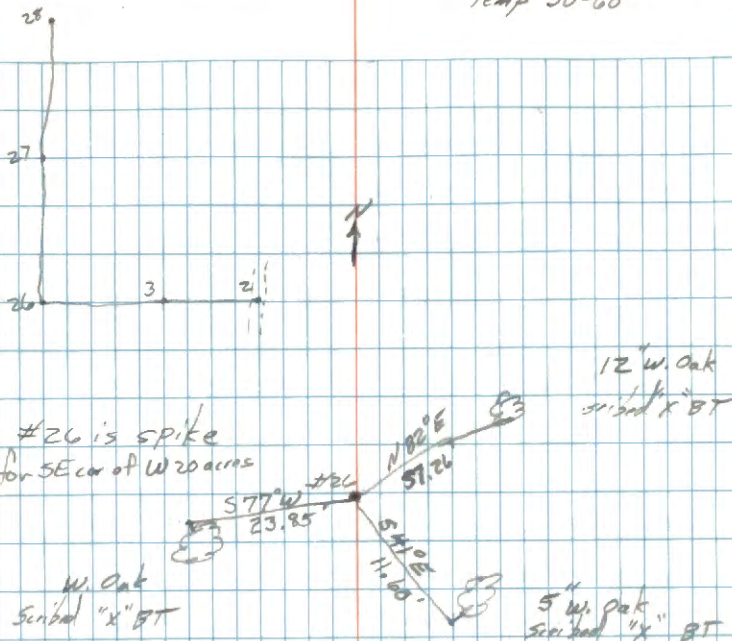
	D	R	D	R
FS 26	179-16-31	359-16-49	188-38-36	008-38-45
BS 2	00-00-00	180-00-12	009-21-57	189-22-11
XC 3	179-16-31	179-16-37	179-16-39	179-16-34
		179-16-35		
3 to 26	91-34-20	388.865	91-31-30	388.709
Final shot 3-26	91-31-34 91-32-42	388.885 388.755	Inverted & 268-28-35	118.537m 388.747
3 to 2	93-31-52		168.46	168.14

	D	R	D	R
FS 27	269-37-37	71-43-72	251-42-07 251-42-47	71-42-19
BS 3	00-00-00	162-04-52	342-05-10	162-05-20
XC 26	269-36-57	38-51	269-36-57	269-36-59
			269-36-58	

	D	R	R
FS 28	180-00-00	21-09-03 201-08-32	21-09-09
BS 26	00-00-00	269-36-57	201-08-16
XC 27	180-00-00	180-00-31	190-00-53

	91-30-17			
27 to 26	91-30-23	269-29-50	760.945	231.935m 760.68
27 to 28	90-43-21 90-43-20	269-18-26	16-50 501.825 501.260	171.246 501.22
	90-43-15			

Windy
Temp 50-60°



#27 is spike

#28 is spike for temp NE cor of W 20 acres

9

10/0/70
KRAUSE + BRAMA

FS 25 182-22-13 02-22-29

BS 24 00-00-00 180-00-13

K 23 182-22-13 182-22-16

182-22-14

K 23 to 25 85-41-01 274-19-11 18.965 5.779M 19.91

FS 27 89-44-34 269-44-46 74-47-59 254-48-09

BS 24 00-00-00 180-00-14 345-08-21 165-03-31

K 25 89-44-34 89-44-34 89-44-38 89-03-25

Angles turned to the right 89-44-35

25-24 92-20-57 267-39-13 671.010 204.525M 170.45

25-27 89-16-47 270-45-23 561.700 171.207M 561.66

FS 25 179-58-13 359-58-19 170-46-25 350-46-35

BS 26 00-00-00 180-00-07 350-48-03 170-48-18

K 27 179-58-13 179-58-12 179-58-17 179-58-17

179-58-15

9

P 25 1/4

P 23

P 24
EN 1/6

P 27

P 26 1/4

	Horiz. Dist. ft	Horiz. Dist. Meters	Horiz. Dist.
FS 3	182-22-46 02-23-13	182-22-57	02-23-21
BS 1	00-00-00 180-00-52	00-00-40	180-01-07
TI@ 2	182-22-46 182-22-21	182-22-17	182-22-14

182-22-~~76~~
17

2 to 1 1899.75 579.04^M 1899.75

2-3 944.14' 287.775

FS 5 BT 238-35-35

FS 4 m ~~174-38-45~~ 354-39-25 174-38 46 354-39-15 174 38 57

BS 2 ~~00-00-00~~ 180 00 06 359-59-45 180 00 10 359-59-56

TI@ 3 1/4 ~~38 45~~ 174-39-19 174-39-01 174-39 05 174-39-01

174-39-~~07~~
82

3-4 711.03 Ft 216.722 m

3-5 38.86 Ft 11.845 m

1-31-05 RMAIN TI

10

SET $\frac{1}{4}$ $\frac{28}{33}$

FS $\frac{1}{4}$ $\frac{28}{33}$ CO-06-02

BS 3 00-00-00

π @ 2

2- $\frac{1}{4}$ $\frac{28}{33}$ 941653

Z-2-05

11

REST OF BOOK
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