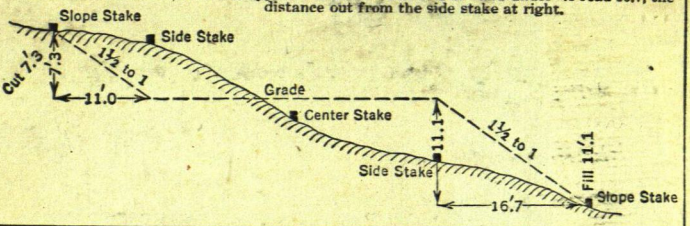
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
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

KEUFFEL & ESSER CO., N. Y.

For Curve Tables see end of book.

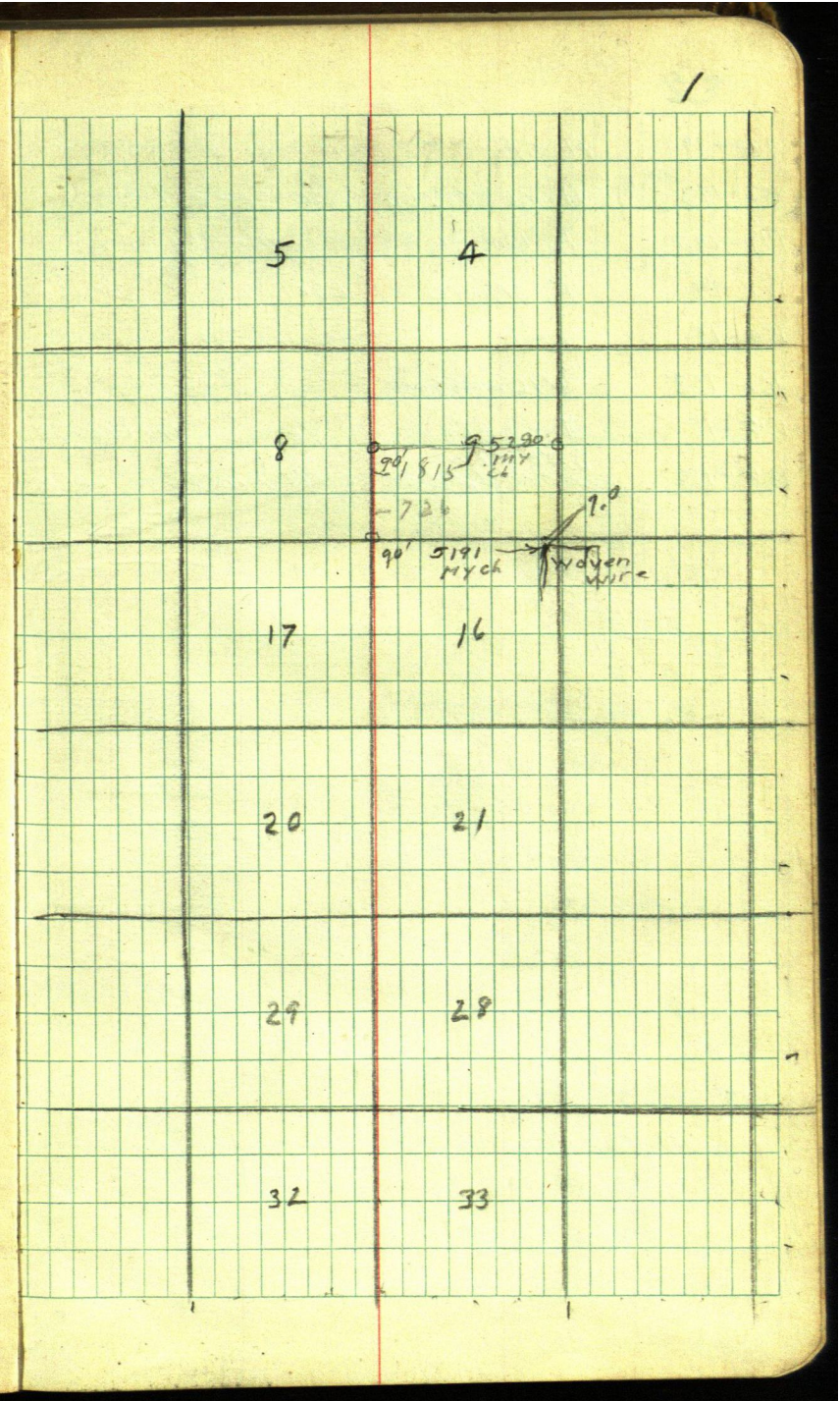
No. 290 Mountainside

Note: This Book No. 290
belongs to Cuno Surveyor.
If lost, please notify the
owners - at once please for
suitable reward

John W Cuno
Walker Minn
June 15-1947

or

Harold J Cuno
Jenkins Minn
June 15 1947


5
4
8
90' 8 15
5290
mxy
22
-726
90'
5191
mych
7.0
wdyen
wire
17
16
20
21
29
28
32
33

INDEX

Kenebic Co
Haybrook Twp 42N 24W 4PM
Louis Hummelwitz Farm

Theodore P. + Ella H. Rasmussen
Lots 1 to 6 - Blk 1 Crescent Beach 10 Mile Lake 42
Hillside Resort Akeley 49-56

57-64	S. PETERSON	2-2-141-31	
66-71	C. OLAFSON	NW¼	28-141-32
72-73	W. JOHNSON	SW-SE	4-141-31
74-81	H PETERSON	1-29-141-32	
82-87	G. WITHAM	SE-SW	18-140-30
88-89	C. OLAFSON	NW¼	28-141-32
90-101	H. HUMMEL	NE-NE	1-140-29
102-106	F. BAIRD	NE¼	4-141-31
107-108	G. WITHAM		18-140-30
109-111	B. FLETCHER	24-140-31	
112-115	THOMA		
116-119	D. JENSEN	L 1-5 HAMMOND ADD HACH	
120-121	D. MILLER	N-S ¼ LINE	18-140-30
122-123	T. LUNDBERG	SW-SW - 11 -	133-30
124-127	H. HOWE	NE¼	7-139-29
128-131	H. SPLITTOSSER	4-4-139-29	
132-137	H. HOWE		7-139-29

Dec 16-1947
Receive letter from Louis
Munkelwitz Wahkon Minn
dated Dec 13 1947 to inquire if
I can come survey his land where
he has resided for 30 years
That date Copy of Isle recommended John W. Cain of Wahkon Minn
Louis Munkelwitz farm
is reported 4 miles East of
Isle. Co Seat is Moray
Timber Cutters
who bot land from State of Minn
on north side of Munkelwitz
are claimed to be Trespass

Oct 16-47 I write Mr Munkelwitz
that I will come if he can send
$50 expense money

Dec 26-1947 Friday
Rec $50 Bank Check from
Mr Louis Munkelwitz

Dec 27-1947 Saturday
Too late in the week
to leave Walker as it will
throw me down there on
Sunday when all Co
and Township offices will
be closed
I will- Mr Munkelwitz that-
I will Lv Monday
P. M.
Rec Telegram to
Come at once or refund
money. Harald and I
hastily make arrangements
to Lv early to-morrow

8 Louis Monkeitwitz

Dec 28-1947 Sunday

Harold Cuno and I in my Car Lv. Wales 9-AM (Ellsworth Miller Staying with Gertrude and Harold's 4 small boys)

Stop 3. minutes at Fred Moulster's Filling Sta at Pine River Oil O.K. Continue Straight thro to Brainerd 11. AM dinner at Bus Depot $1.80 Call at National Hotel Mrs and her daughter OK Re: Pillager Lake Tract

Mrs K.T. Early at Church 11-30 AM I leave $5. with her brother to hand to Mrs Early % my life Ins.

John W Cuno

Harald and I L & Brainard at noon 2-30 PM (about)
Stop at Isle: Coffee
Get gas and alcohol
People Service Sta
Standard Oil Isle Minn
Gas 2.10
A/K 2.70 1½ gal
4.90 Pd
Room 2-d Isle Hotel $3.
Call Walt Kotz and go to his home
Walt loans me his big Blue Print and a lot of information
3-PM Harald and I L & Isle: Follow "CC" East Then 1½ miles N to Res of Louis Munkelwitz Big Ho Tel
New barn 18 Cows 25 cattle
400 acres of low land. Find his home shortly Wife 1 girl 15 One boy 10 one girl 5.
He and his team take Harald & I over the new Cutline

T 42 R 24 Kanabec Co Minn

Louis Munkelwitz — Taxes 1946
SE SE 8 Sch Dist 18 — 3.46
So 1/2 Sec 9 — 54.43
Oct 31-1946 — 57.89

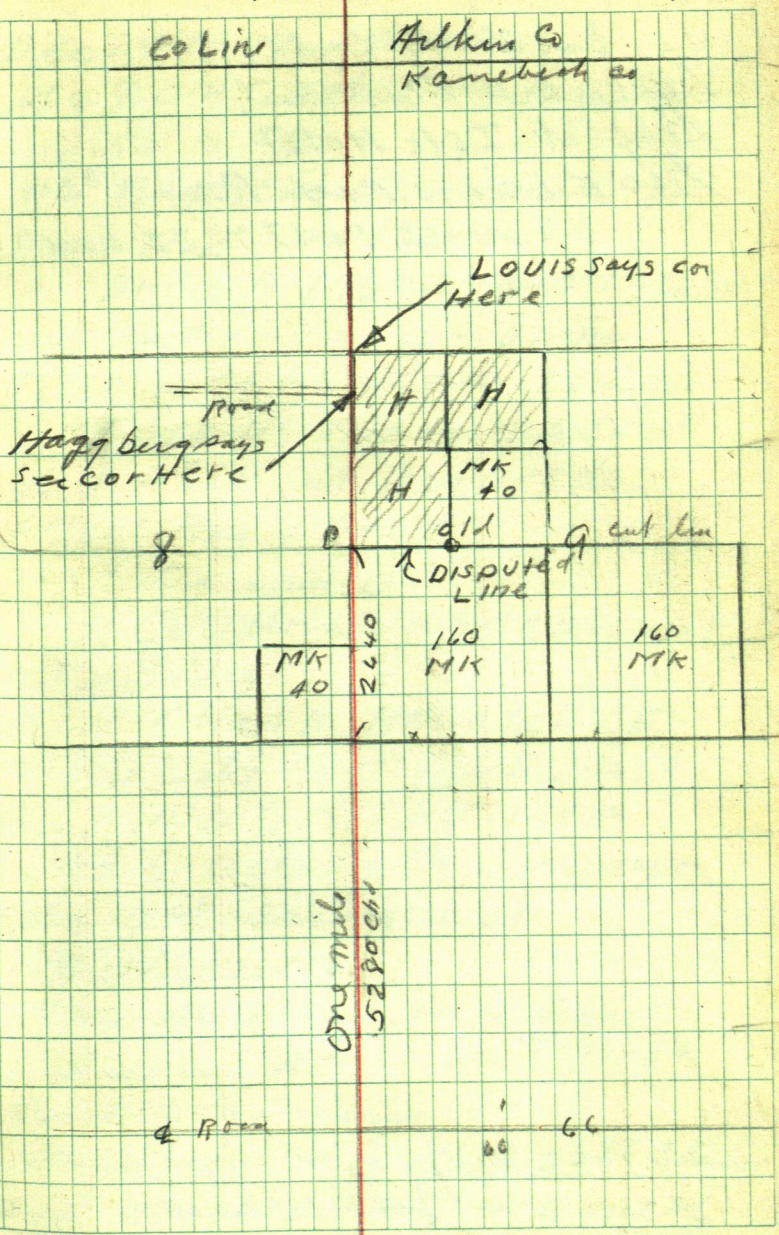
Munkelwitz also SE NW 9-

Otto Haggberg (Mill man)
Owns
W 1/2 and NE NW 9- 42-24

Haggberg is Cutting Munkelwitz timber

Nov 1946 Munkelwitz hired Mr Griffith a Surveyor at Mora
Compass line Beg at 1/4 bet 8-9
42-24 spotted 4" Hardwood line
west side of road and run
East 80 Rods along old cut out
line and set stake

Otto Haggberg hired him 1947
and he took off 11 + 11 of Munk-
land


Co Line
Atkins Co
Kanawha Co
LOUIS says Cor Here
Road
Haggberg says Sec Cor Here
H
H
H
MK 40
8
Old
Cut line
DISPUTED LINE
MK 40
24.40
160 MK
160 MK
Dry Run
52 Poles
4 Road
66
33

Dec 28-47 Contd
Supper with Munkelwitz -
Sleep at Isle Hotel
Geo E Lewis Prof Room 2. 8 a.m.
U S Navy Pg 17 To 27 both
incs

John W Lewis

Dec 29 1947 Monday
Up @ 9-0 M Eat Pancakes 50
and 50 = $1.00
Pay also in advance for
Room # 2 Pd 53¢
Drive to Mora eat 12-30
PM 40 and 40 = .80 c 0 in mea
12.30 at Ct Ho Mora 28 miles
Find US Transcripts
and Plat at Reg Deeds.
Meet Reg of Deeds
" Treasurer
" Co Attorney who cannot
take Sides
Meet Chas K. Handsch CE
Moose Lake Reg get his Card
Meet M. W. Griffith Mora
May be acting Co Surveyor
who 1st surveyed for
Mickelwitz
Then surveyed for Haggberg
and moved E W & Sec 9-42-24
South 1100 ft plus
Handschu and Griffith both claim
I M. @ NW Cor Sec 9 at E. End of
road.

over

16

We copy part of US Field
Notes Twp 42 R 24
Lv Mora Lab. a Munkelwitz
Res. 6 PM for Supper
8 PM Back in Room 2. at
Isle Hotel.

See US Notes Pg 177 ff.
Meet Geo L Angstman Lawyer
Tel 296 Mora
Knows Ed Rogers also John Pepper
Brook RD. Bear Island etc.

Survey commenced Dec 5th - 1855
" finished D Dec 20 1855 17

42-24-4PM
N Bdry
S 87° W Bet Accs 1-36 V 11°30' E
1700 Ent Tam Swp NE
1932. Tam 12" in diam
2460 River 6 Lks Wide runs S
3400 Lv Swamp NE
4000 Set 1/4 Sec post
Balsom 10 N 65° W 23 Links
" 14 South 16
80.00 Cor 1-2-35-36
Spruce 10 N 43 W 35
Balsom 7 N 72 E 19
" 9 S 30° E 28
Birch 10 S 55 E 16

S 78° W Bet 2-35 V N 30° E
.06 Balsom 6" diam
2100 Ent Tam Swamp South
3946 Balsom 7" Diam
4000 = 1/4
Tam 12 N 43 W 9
" 10 S 75 E 24

Isaac A. Bamker
Contract Aug 22 - 1855

18 North Bdry 42-24 4th PM

6700 LV Swamp Bear S
7971 Sugar 12" diam
8000 Post Cor
2-3-34-35
Sugar 10N 73W 53
" 15N 10E 11
Birch 15S 71E 50
W Pnts 24S 60W 24
Land level Dec 19-1849

S87°W Bet 3-34 & 11-30 E
1.46 Balsam 9"
40.00 Set 1/4 Post
Sugar 9S 40W 23
" 9N 5°W 10
4205 Lind 18" diam
5900 Ent Tam Swp NE
8000 Set Post Cor Same
3-4-33-34
Tam 14N 56W 12
" 10N 40°E 25
" 12S 55E 11
" 9S 55W 9

US Notes Contd

S 87° W Bet Sec 4-33 V 11°45' E
(Nat Plat says V 11°30')
@ 320 Tam 12" diam
1200 Lv Tam Swamp NE
2200 Ent Tam Swamp NE
4000 Set ¼ post
Tam 15 S 20 E 17
Balsam 5 N 65 W 7
4010 Lv Swp NE
7100 Ent Swamp NE
8000 Post Cor to
4-5-32-33
Balsam 8 N 48 W 7
Birch 7 N 36° E 16
Balsam 7 S 42 E 17
" 7 S 35 W 12

S 87° W Bet Sec. 5 & 32
Var. 10°30' E
.50 Lv swp NE
.66 aspen
3500 Entr Tam. swp N
4000 Set ¼ Sec. Post
Tam 8 S 40 E 9
" 8 N 40 E 23

7100 Lv mup SW
7955 Tam 10" in Dam
8000 set Post Cor To Sec
5-6-31-32
Spruce 5 N 60 W 9
Tam 11 N 36 E 9
Spruce 5 S 30 E 20
" 5 S 10 W 5 7

S 87 W bet 6-31 & 11-30 E
1300 ent mup NE
2900 Lv. Tam mup NE
4000 set 1/4 Post
Spruce 75 53 E 53
Tam 10 N 74 E 20
6000 Ent. Tam NE
8580 intersect Range line
@ Post cor Twps 42-43
N R. 24-25 XX
Tam 10 N 55 W 78
" 6 S 15 W 37
Spruce 75 55 E 80

Dec 20-1849

Subdivi' 42-24 (21)

Cor to 14-15-22-23
Sugar 8 S 48 E 37
" 7 N 52 W 11
W Birch 10 S 52 W 31
Elm 11 S 7 E 29

Dec. 8 1855

2-3-10-11-42-24
Baleom 12 N 29 E 27
" 10 N 38 W 35
W. Pine 30 S 45 W 43
Agnes 185 46° 45' E 8

North Bandom bet 2-3
Var. 10° 13' E
81.63 entrance N bdy 12 LKs
E of. Post.

South True Set 2-3
Var. 10°18' E
2100 S enter Tam mnps NW-SE
3500 LV same
4163 set ¼ Sec Post
W Pine 15 S 23 W 16
Sugar 9 S 16 "45" E 20
5630 S enter Tam mnps E & W
7200 LV same
8163 cor to Sec 2-3-10-11
Dec 10 - 1855

27-28-33-34 - 42-24
W Pine 18 N 14 W 36
" 20 N 20 E 18
" 24 S 16 W 14
" " 24 S 42 E 7

15-16-21-22 Dec 11-1855

North bet 15-16 - Var 10°13' E

900 ent Tam Arroyo NE-SW
3000 Lv Same
3900 ente creek bottom NW-SE
4000 Set 1/4 Cor
No Tree
4830 enter R. bank creek 10 Lks Wide
same SE
6300 Lv creek bottom
7450 enter Tam arroyo E & W
8000 Set cor To
9-10-15-16
Tam 16 N 38°15' W 27
" 10 N 19°30' E 11
" 125 68°45' E 18
Blk Ash 95 46°15' W 20

West True bet 10-15 V. 13°17'
1250 ent Tam arroyo NE SW
3994 Set 1/4
Tam. 10 N 61 W 20
" 95 18 E 16
7988 cor.

North bet 9-10 Var. 10°13'E

4000 = 1/4

Tam 10 N 5 W 11

" 9 S 60°30'E 17

4159 N

6300 Lv Tam Camp E & W

8000 Cor 3-4-9-10

W. Pine 24 N 16°30'E 12

" " 16 N 31°15 W 7

" " 20 S 22°20'W 22

Babson 9 S 61 E 30

North bet - 3-4 Var 10°13'E

8121 intr. N bdy 92 LK E Post

South True bet 3-4

Var. 10°5'2"E

4121 S 1/4 Cor

Blk Ash 9 N 40 E 7

Tam 20 S 22°30'W 16

5800 Lv Tam.

8121 South

Cor To 3-4-9-10

Dec 12-1855

North bet 20-21- Var 10°13'E
4000 = 1/4
Aspen 5 N 30 W 16
W Birch 6 S 70 W 14
8000 post
16-17-20-21
W Birch 5 N 5 E 16
Lind 5 N 78 W 29
Balsam 6 S 68 W 55
Blk Ash 8 S 7°30' E 40

N bet 16-17 Var. 10°13'E
4000 = 1/4
W.P. 18 N 15°30' W 23
Asp 9 S 30 W 10
8000 cor To
8-9-16-17
W.P. 14 N 13 W 10
Balsam 15 N 21°30' E 16
" 9 S 62°15' E 11
" 12 S 41 W 26

West Tang bet 9-16
Var. 13°33' E
3668 entr west L bank of
creek & LK wide runs S
3992 ~ 1/4 Tang
Tam 12 N 18 E 21
" 7 S 35°30' E 62
6350 Lo Tam runs NW-SE
7984 sec cor.
8-9-16-17
Dec 14-18 5/5

North bet 8-9 Var. 10°13' E
1100 (726 Ft) entr Tam runs E & W
2750 intersect L aff bank
(1815 Ft) of creek & LK wide runs
SE
4000 1/4 Post
Tam 16 S 28 W 15
" 9 S 32°30' E 19
4100 Lo runs.
8000 cor to 4-5-8-9
W Birch 20 N 13 E 16
" " 14 N 23½° W 22
Balsam 9 S 62°30' W 21
" 7 S 55° E 12

West True bet 4-9
Var 13°14' E
600 enter Tamarack NW-SE
1800 LV
4003 set 1/4
Balsam 10 S 60°45' W 20
Sugar 7 N 22 E 13
8006 cor - 4-5-8-9

North Rambom bet 4-5
Var 10°13' E
8075 intersect N bdy 33 LK
W of Post

South True bet 4-5
Var 9°5-9' E
6.50 enter Tam E & W
2000 LV same
4078 set 1/4
W.P. 20 west 24
" " 24 S 16 E 33
8078 set Cor cor to 4-5-8-9
Dec 15-18 5-5

T 42 N R 24 W 4 PM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Dec 30-1947 Tues

Up @ 8-30 Breakfast

9-30 a Munkel Wilz Res

8 9 16 17 ch

North Bet 8-9 Var

300 - 600 + 126 = 726 Sub E W

900 1200 1500 1800 -

1815 (= 2750 Lin: Pg 26

Cruch hes

2100 - 2400 2700 - 60

2640

Tam 165 28 W - 15 = 9.90

" 9 S 32° 30 E 19 = 12.54

Charlie Lanciran 36'

Roy Nelson 186

Beg @ West end of old fence
8-9-16-17-
North E rd
150 L[s] meadow E-W
300 - 600 - 900 -
1200 enter Sub
1500 pin 1525 Ditch SW
1800 - 2100 2400 2700 Pin
2640 Temp 1/4 Cor Old Cut out
Line 30 years old Runs East
From the 1/4 Cor bet 8-9
42[m] 24[a] Louis and his father had a well Cut out line Running East over which they drove their teams along the North line of their 320 Acres (S 1/2 of Lot 9).
Hagberg's Cutlers has felled this line with green tops and to-day Munkelwitz Two new hired men are Cutting East Clearing out his line while Harold and I chain Continue North Louis helps

See Page 32

T 42 R 24 4 PM

North bet 8-9 along plowed out road 20 years old Ditched Graded

@ 2640 ¼ line Run E

+30 = 2700 pin 3000 pin

2706 About Lo Swamp E W

2900 Foot of hill

3000 pin on log 3300-3600 P/n

3600 + 215 = 3815 Set 60d spike in line with old road running West

We Lak Ties to our 60d spike 3815. Ties

8" Elm So about 50° E 15 Ft

7" Ash So " 45° W 50 "

12" Poplar N " 45 E 41.4

12" Basswood N " 50° W 57.0

all roughly spotted dull axe

11-30 a m I start home Harold and Louis Continue North Bet 8-9-

See Page 34

Finish at most 40 hours 16 weeks

1947 Time Sheet	SUN	28	29	30	31	Jan 2	3
Dec		Pd	Pd				
John W. Curo @$15 + EXP 6 Hours		1	1	1	1	1	1 1/2
Car Miles @5¢		130	60	20	7	-	-
Cost @5		$ 6.50	$3.	$2	2	2	2
Meals @70¢		2 140	2 190	2 140	140	1	50
Beds		15¢	15¢	15¢	15¢	15¢	15¢
Harold Curo @$10		1	1	1	1	1	1
Meals @70		2 140	2 140	2 140	140	-	50
Room		150	15¢	15¢	15¢	15¢	15¢
Hours Louis Munkelwitz Hours		Tues. 1	-	AM 3	1		
		-	-	2	-		
		-	-	2	-		

42-24-4pm

34 Louis Nunkelwitz

NORTH bet 8-9-

3815 Road West Page 32

+ 85 = 3900 - stake

4200 4500 4510 Cros

New Highway Line NE SW

4800 - 5100 - 5400 5700

6000 - pin (6050 end of New

snow plow)

6245 enter Swamp 6300 Pin

6435 ✓ creek E W 6600

6685 Lv Swamp 6900 pin

7200 - 7500 pin 7675 ent swp

7800 pin 8010 Lv Swamp

8100 pin 8400 8700 9000

pin 9085 ent swamp

Note At 9215 Louis says

some claim is the Corner

on Co line

9300 9600 pin 9660 Lv Swp

9900 - 10200 set wood Hi Land

wood stake Quit and walk

home to dinner Ar 1.00 PM

Dec 30 - 1947 Continued
PM.

Harold and I lay off crew and work on angle at SW Cor Sec 16 - Co Road

Send Nik - letter to Gertrude

Writ Walker Bank + Highway also Writ Gertrude

Writ Notes at Room 2

Isle Hotel

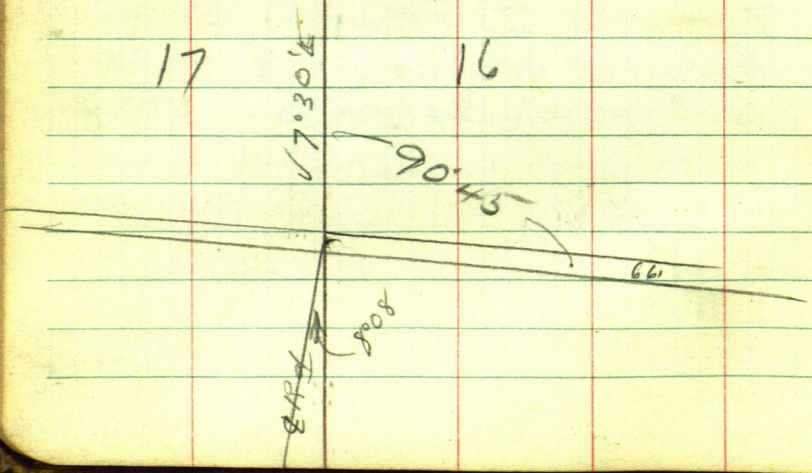
Do Not pay for room

Supper at Restaurant 65 + 65 $1,30

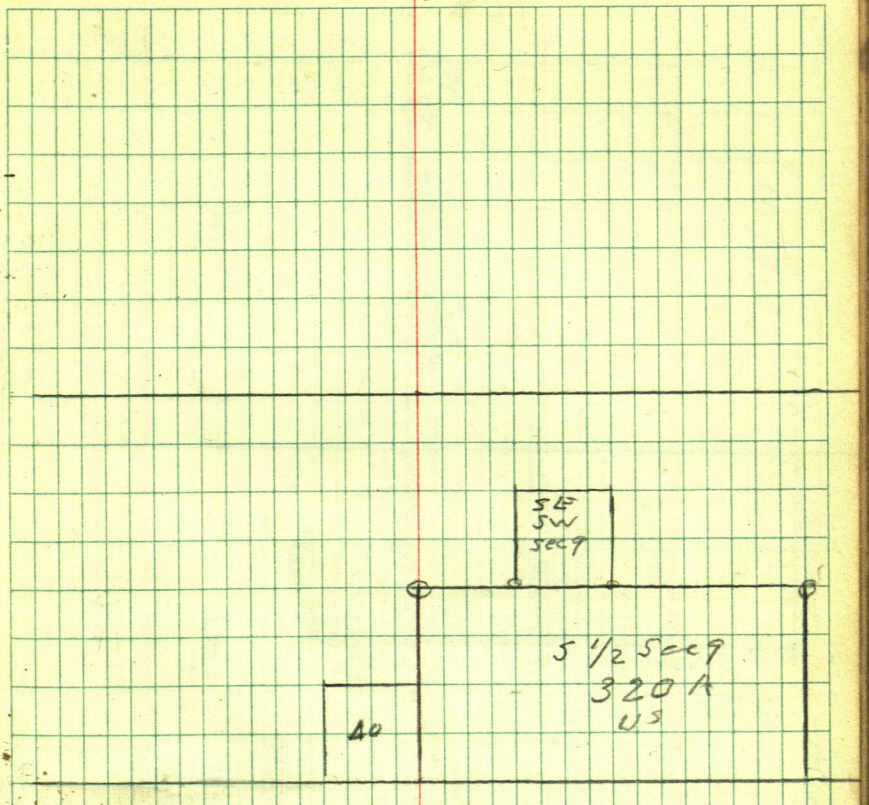
Dec 1947				Jan 1948							
$3 P. 28	$3 Paid 29	Not Pd 30	31	1	2	3					
				1st	2nd	3	4				
SUN							SUN				

Isle Hotel Isle Minn
George E Lowis Prop
Phone 94 Isle

Dec 31-1947 Wed
Up @ 8 am Called Louis
Breakfast 25¢ 30¢ 55¢
Tell Louis to meet us at
40 and 15° below
Bright Sun
Write Carl Ryan Ely
send PO Order $3.1.
Board of Registration
Engineers and Land
Surveyors St Paul
Do not know their address
9-30 LV
Drive 1. SW Cor 16-42-24
interior lines

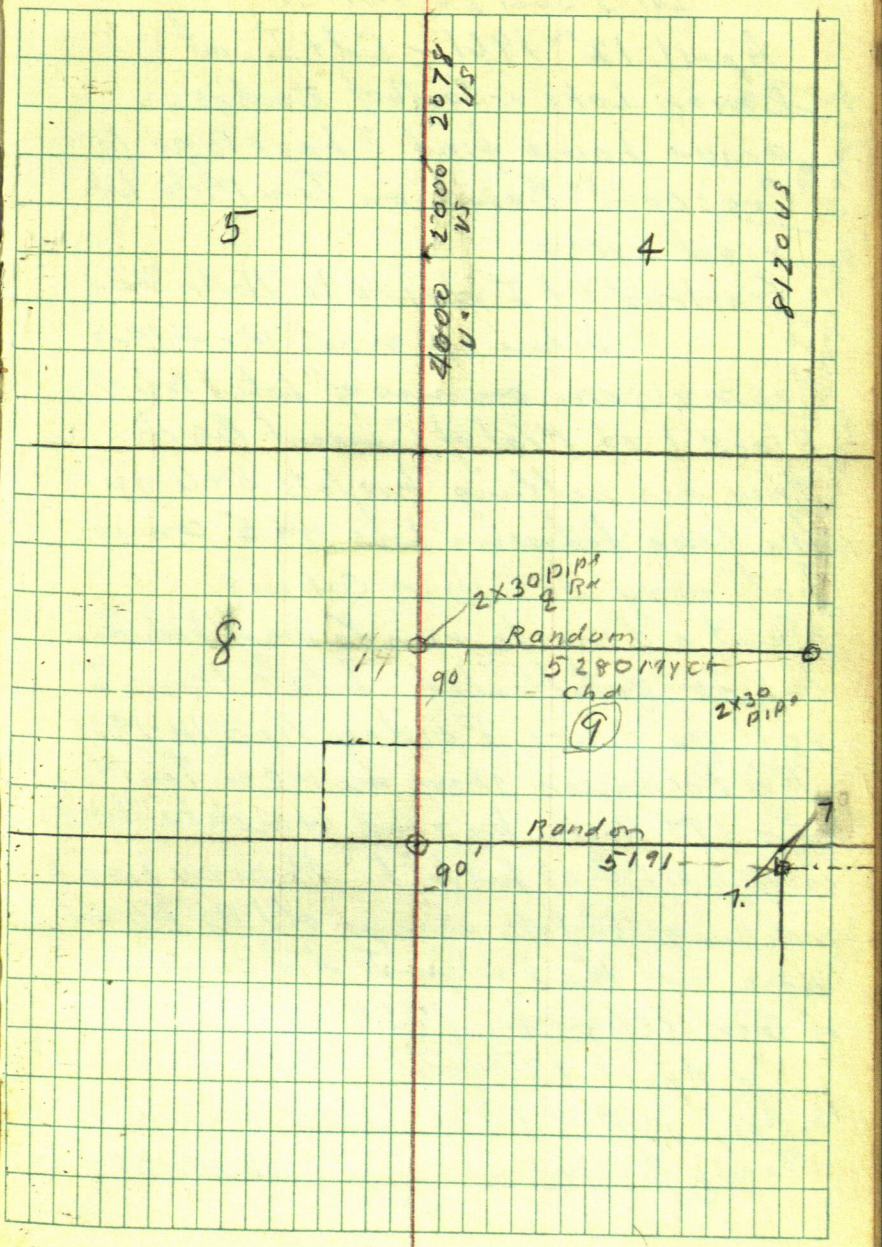


Dinner with Lewis
PM
Set spike on Line E wheel
Lunch 60¢
Turn 6" bolts.



Haybrook Twp
Kenebic Co Minn
Jan 1-1948
Harold and Jack Cano
Isle Hotel Room 20 $3/per day

T42R24-4PM


5
4
8
9
7
2000' 2078' US
2000' US
U.
P/20 US
2x30 D.P.
Random
5280' W'ly ct
chd
90'
Random
5191'
90'

42

Crescent Beach
Lot 3 Sec. 23 - 141 - 31

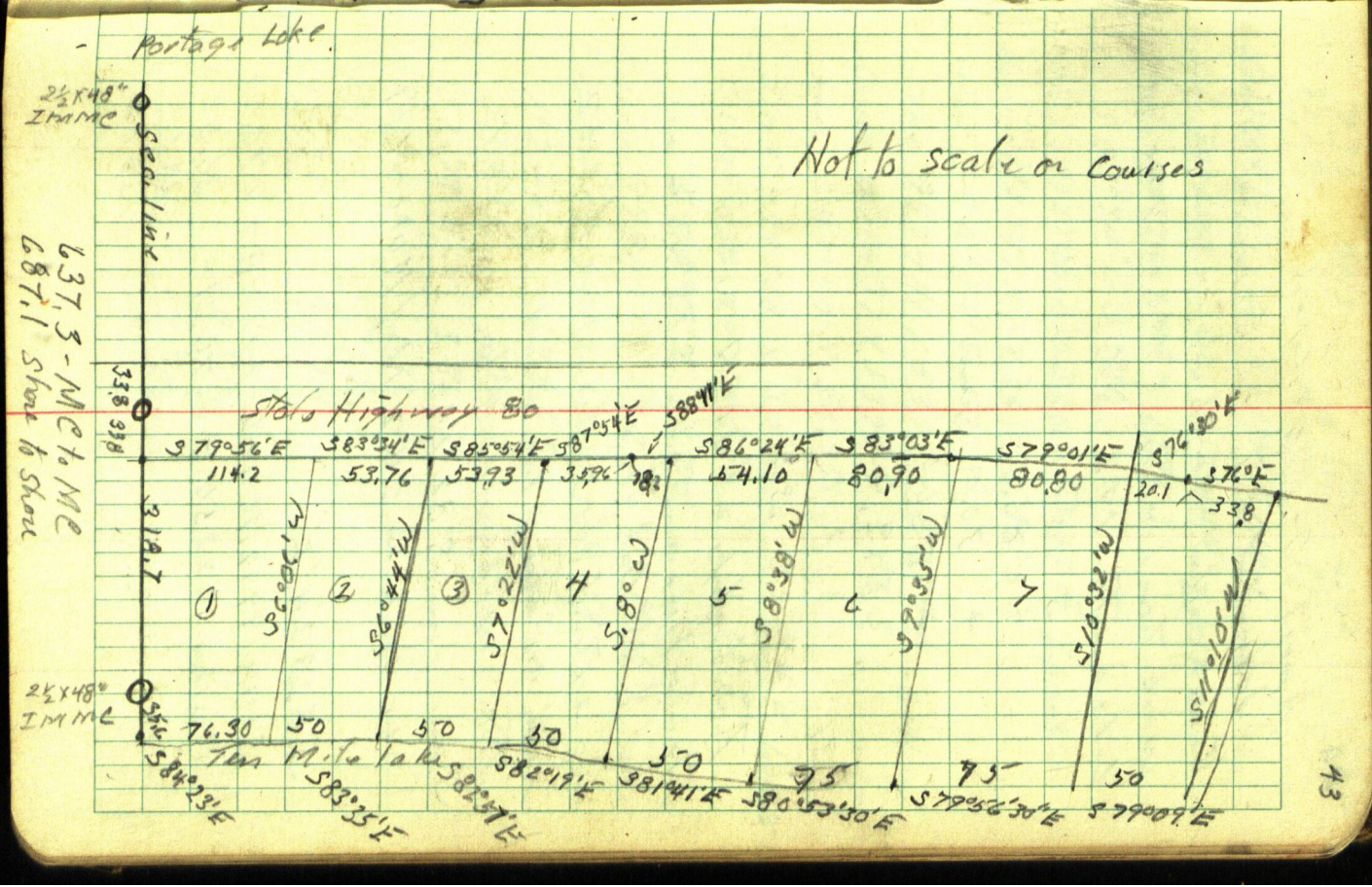
April 12th 1961 - Ed + I at Bowen Lake - South of Backus, arive home find I have to go to Crescent Beach on Ten Mile Lake right away.

Gertrude + I drive to North Shore where we meet Mr + Mrs Rasmussen owners of Lots 1 to 6 of Block 1 of Plat of Crescent Beach. They are selling two lots 5 + 6 if the line between Lots 4 & 5 comes half way between cabins want a line to run ½ way between cabins established I tell them I will be there Friday Apr. 14-1961

Mr. Rasmussen shows me McCon Ten Mile also I M North by road which he thinks is his NW Cor of his lot 1. there are irons marking the lots along old Hy 80 which were not there when I did some work of Geo. Allen in 1954

April 13th 1961

Copy part of Plat of Crescent Beach old figures see page 66 Book 276


Portage Lake
2½ x 48" IMMC
Sec. line
Not to scale or Courses
637.3 - MC to MC
687.1 Shore to Shore
State Highway 26
S 79°56' E
114.2
S 83°34' E
53.76
S 85°54' E
53.93
S 87°54' E
35.96
S 88°11' E
18.2
S 86°24' E
64.10
S 83°03' E
80.90
S 79°01' E
80.80
S 76°20' E
20.1
S 76° E
338
338
338
318.7
S 6°30' W
S 6°44' W
S 7°22' W
S 8° W
S 8°38' W
S 9°55' W
S 10°32' W
S 11°05' W
1
2
3
4
5
6
7
2½ x 48" IMMC
S 84°29' E
76.30
50
S 83°35' E
50
S 82°57' E
50
S 82°19' E
50
S 81°41' E
50
S 80°53'30" E
75
S 79°52'30" E
75
S 79°09' E
50
Ten Mile Lake
13

April 19-1961 Wed

John-Col & I to Crescent Beach Resort called North Shore Beaches

Work Ton Inset & Mean Portage Lake on Ten Mile Lake

Chain S 120.1 sub spike

+ 86.3 " "

+ 30.0 pin

+ 82.65

319,05

31 - 318 7

,35

Tower spike at 318.7 S.L. Sec True line and run S 79°56'E

hit ℄ 10" Oak Tree

We extend the section line N 24.2

spike on S edge of Tar road

Tower spike on edge of Tar road S.L. Sec and run S 82°24E

our spike is 24.2 N of NW corner

S82°24'E

Sine 99.12.16 into 273.78 = 276,21

Cosine 132256 * 276.21 = 36.535

2420

6075

7.36 90.3 90.66
8224 8266
660

NW corner A/ run S 79°56'E 114.2

Sine .984605 x 114.2 = 112.44 E bet 1-2
Cosine .174794 x 114.2 = 19.96 S

run S 83°34'E 53.76

Sine .993703 x 53.76 = 53.42 E bet 2-3
Cosine .112047 x 53.76 = 6.02 S

run S 85°54'E 53.93

Sine .997441 x 53.93 = 53.79 E 3+4
Cosine .071497 x 5393 = 3.86 S

run S 87°54'E 35.96

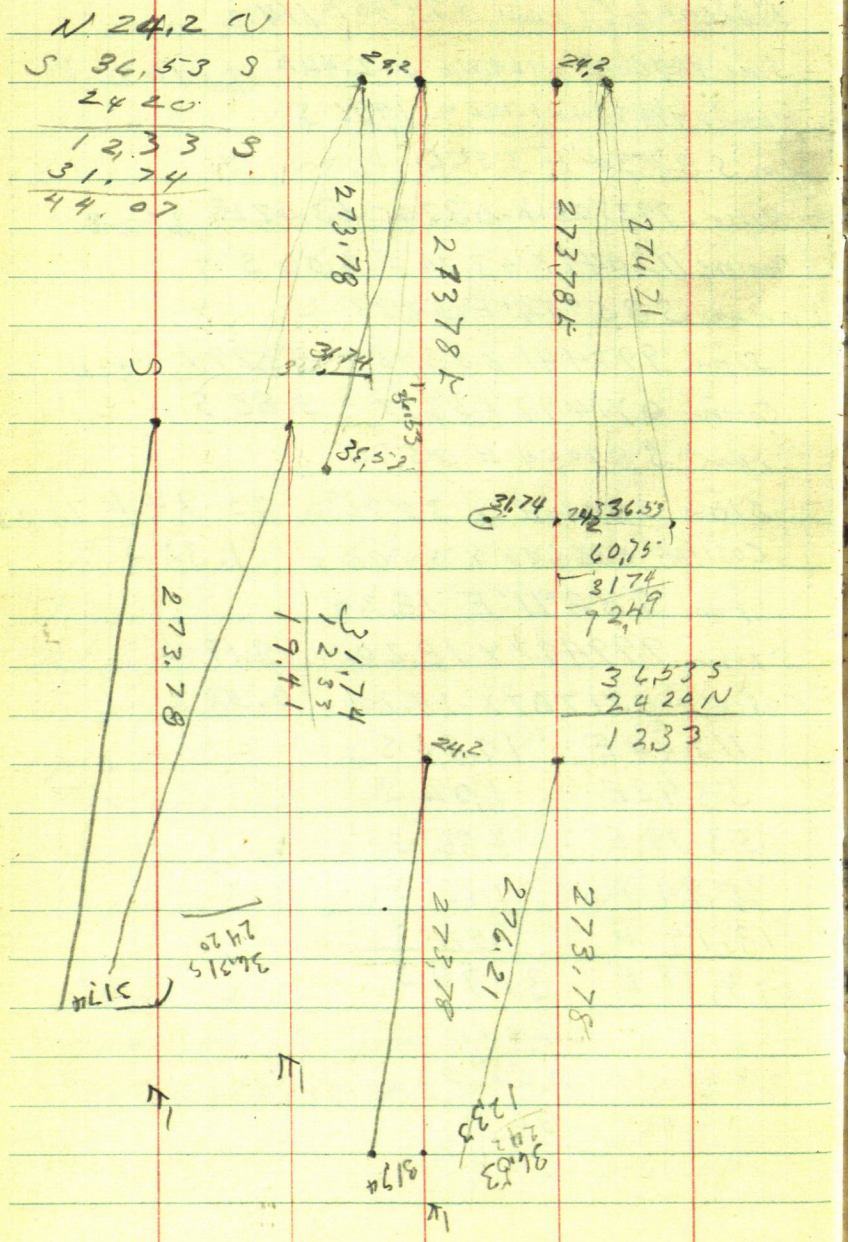
Sine .999328 x 35.96 = 35.94 E bet 4-B
Cosine .036644 x 35.96 = 1.32 S

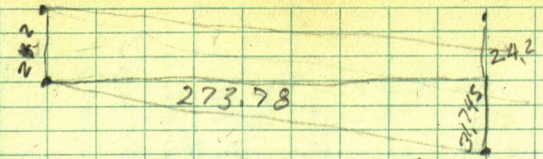
run S 88°11'E 18.20

Sine .999497 x 18.20 = 18.19 E
Cosine .031702 x 18.20 = 0.58 S

112.44 E	19.96 S
53.42 E	6.02 S
53.79 E	3.86 S
35.94 E	1.32 S
18.19 E	2.58 S
273.78 E	31.74 S

2420
4093
3453
2442

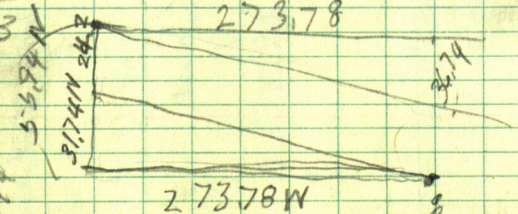

N 24,2 W
S 36,53 S
24 20
12,33 S.
31,74
44,07
24,2
24,2
273,78
273,78
274,21
273,78
31,74
36,53
60,75
31,74
72,49
36,53 S
24 20 N
12,33
273,78
31,74
12,33
19,41
24,2
273,78
273,78
274,21
273,78
31,74
24,2
24,2



4159320

27378 | 21,74.0

3653
242
12,33



31,74
242
3394

5-3-94

5-5,94
3653
3920
19,41
19,41

31,74
242
3394

Akeley Minn Hubbard Co

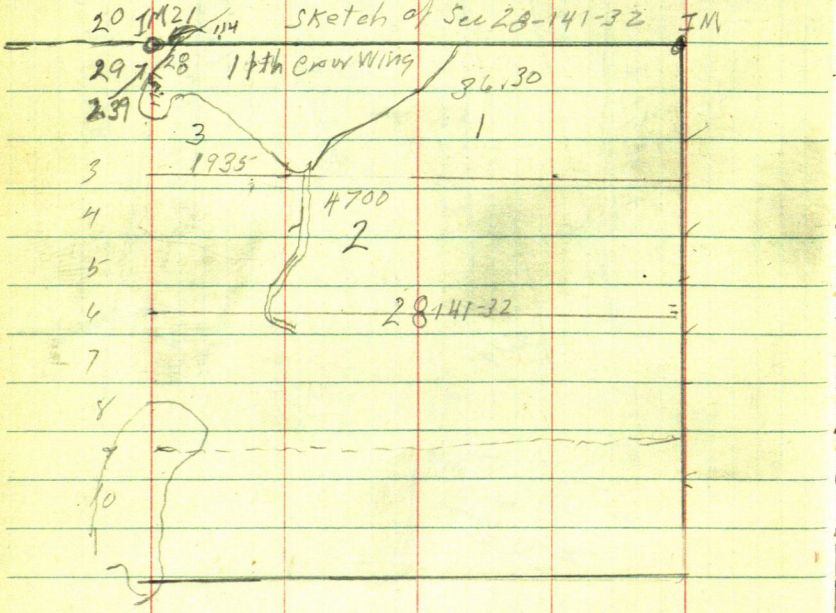
Hillside Resort.

Aug. 19th 1961

I go to Bemidji and pay Truck payment

PM

I go to Park Rapids to check survey records of work Wilsie did in Sec 28-141-32



Note in order to find the E line of Sec 29 being West line 28 we go to NW Cor Sec 29 then W to it and look for Todd's BT.

JP 6 N 50° W 9½ ft

JP 4 N 45 E 16.5

Todds old Notes 1916
Say beg at NE cor Sec 29 run West at 1360 south Lake @ 2025 Lk @ 2628.6 True ¼ cor set N. 20.9' MK. Now B.T.
Pop S 562°10' E 564
" 4 N 11°53' W 57.95 to nail heads
Correct line the E ¼ goes E 5.75 to 1314.25 E and N 10.45 to true pt.
MK. BTs
JP6 N 50 W 9½ JP4 N 45° E 16.5'
Locate true North line Sec. 29 from three pts. and from NE cor of Sec. 29 run South and set point S of bay of Mth Crow Wing Lake. NW cor lot 3

May 31-1962

John Bob & I to NE cor. Sec 29-141-32

We walk W along edge of field find I M. near lake

Set T on top nite W on flag at I M and run E.

From I M chain E 60+64.1 = 124.1 hub on top + 600 = 724.1 min + 181.2 = 905.3 hub in field + 376.3 = 1281.6 hub to top of cut bank of road

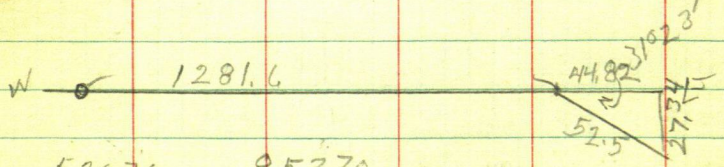
T over 1281.6 I M bears R 31°23'

52.50 ft.

31°23' - 52.50

Sine 52076 x 52.5 = 27.34

Cosine 85370 x 52.5 = 44.82



52076 × 525 = 26038 + 10415 + 2604 = 27.339

85370 × 525 = 42685 + 17074 = 44.8 T 925

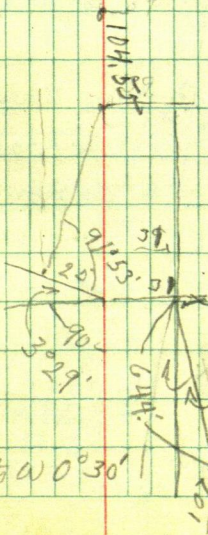
460
20°
480

1281.6
.448
1324.4 | 273.40 = .02061 = 1°N'
26528
81200
79584
16160
13244

Corrections = .02061 of a ft S for each foot E

1281.6 X .02061 = 26.41

We correct hub 1281.6
Move transit over sight W on corrected hub 1281.6 plat at 90° and run South plat at 0°



Fence post sets @ 0°30'

Sig. Tri:

W3°29' N 25' W

Sine 06076 x 25' = 1.52 N

Cosine 99815 x 25' = 24.95' W

N 1°53' W

Tang 03288

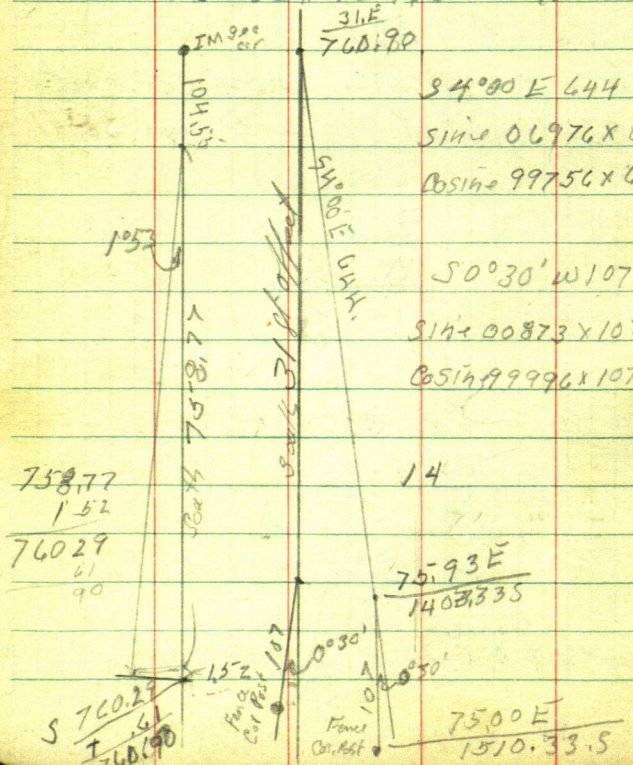
Cotang 30.4116 x 24.95' = 758.77

1°53'

Sine 03286 x 758.77 = 24.93

Cosine 99946 x 758.77 = 759.18

03286 x 759.18 = 24.95'



.04964 58
15 10.33) 75 00.00 Correction = .04964

hub 1045 S goes E 5.19
hub 760.90 S goes E 3.79
hub 1403.33 S " E 69.69
hub 1510.33 S " E 75.00

offset hub 760.90 S 30 31 E so it goes E 6.79 to line

Hub 1403.33 S goes E 69.69 it is already 75.93 E so it goes W 6.24 to line

69 69
6 24

June 2-1962

John Bob & I - Henry goes along
We correct W line of Sec. 28-141-32 and extend Sec. line to cut bank of GNRR.

Town said but site Non section line
and run N86°07'E +1.40 +120 +260 +231.8 = 491.8

Sin = 99770 X 491.8 = 490.67 E

Cosin = 06773 X 491.8 = 33.31 N

```
  3 4 5          3 4 4 2
  99770          06773
  4918           4918
 798160         541840
  99770/0       67730/
 897930/6      609570/4
399089/8      270922/1
490668        333091
```

Tower 4918 BS S 86°07 W rvm
N 82°43' E 1002.9

Sine 99193 x 1002.9 = 994.81 E

Cosine 12678 x 1002.9 = 127.15 N

99193 × 10029 = 892737 / 1983861 / 991930 / 994.80

12678 × 10029 = 114102 / 25356 / 126780 / 127.14

Tower 1002.9 BS S 82°43' W rvm
N 3°49' E 217.5

Sine 06656 x 217.5 = 14.48 E

Cosine 99778 x 217.5 = 217.02 N

06656 × 21750 = 33280 / 44592 / 4656 / 133128 / 14.48

99778 × 21750 = 498890 / 698446 / 99778 / 199556 / 21701

Tower 217.5 BS S 3°49' W rvm 3
N 45°34' W 348.4

Sine 71407 x 348.4 = 248.78 W

Cosine 70008 x 348.4 = 243.91 N

71407 × 3484 = 285628 / 571256 / 285628 / 214221 / 24878

70008 × 3484 = 280032 / 560064 / 280032 / 210024 / 24398

1499.96 E
248.78
1251.18

1.69

2482.4
1.69
2467.1

2482.4
1.65
2500.5

348.4
1.65
350.05

W

217.02
243.91
460.93

from spike 348.4 continue
N 45° 34' W 1.65 To 350.05'
this will have 1250.00 ft lying West
We set I.P. at Lake and R.R.
R/W. hand in Statement for $215.00
get paid in cash. June 24 1962

Tome 4

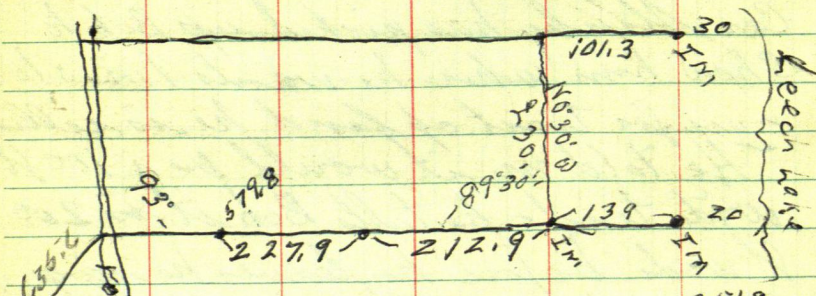
Stanley Peterson
Gov't Lot Sec. 2 - 17N-1-31

Yesterday I told Stanley I would be here to-day he was to meet me at 9:30.

Apr. 20th 1964

Bob & I drive to Paradise Point look at I M I set in 1951 try and find old hub on S 1/16 line Sec 2 cannot locate it I walk West to see if I can locate S 1/16 Leave Bob at car to meet Stanley I do not find I M walk back to Car Stanley has picked up Bob to show him where he wants line S to run for tract of land he is selling He told me it would be a 100 ft wide tract he tells Bob it is 200 ft wide before he leaves he says it is to be 230 ft wide that he will check when he gets back home and if it is 230 he will go on to work if it is something different he will come back and let me know he does not come back Bob & I open up the S line of tract to be sold find we left flag pole and

chain home to go get them
Tower I'm driven in the ground
by Stanley site E on flag at
I H driven by Stanley to mark
the South line
Turn 90° and chain North 230
ft set spike hub
90° left hand of chain turn 0°30'
K 0°30'
sine .00873
Cosine .99996 into 230 = 230.009



139 3519 139 351.9
212.9 2.50 2129 227.9
351.9 601.9 min 351.9 579.8
227.9 337 2.50 579
5798 1356 601.9 min

road runs N 3° W
sine .05234 X 23032 = 1205
Cosine .99863 into 230 = 230.32

219.9 250 229.9 60 59
219.9 19 50.3
4.6.9 110.3
13.7
4.0.3

Site

Casing 99863 into 33 = 33.06

Pickup stuck — in mid of road

Car pulls us out

Bob + I go look for 3 1/16 corner

Rec. 2-3-141-31

We find a 2 1/4 x 48" Gal. county iron no marks on cap. We follow old cutting N. and find another 2 1/4 x 48" old county iron (could be 1/4 no marks on cap. get turned around in woods and come out at Sam. have to walk back to Paredis point for Pickup home Sat

139
212.9

80
130
2.10

April 21st 1964
rained last night still raining
this morning at 7-30
Checking old notes Book 270
Book 270 page 37
J W C new ties to Cor - 2-3-10-11
141-31 taken in May 1947
Red Oak 4N 52°47' E 19.85
" " 6N 53°22' W 22.65
" " 8S 57°38' W 23.55
White Oak 4 S 56°40' W 8.60
Red Oak 8 S 28°03' E 39.75
to spot at Base turned from true line
west
at 1349.67 N = S 1/16 Cor bet 2-3
Correction page 91 Book 270
Hub 1189.60 N goes 3.45 E to line

Old notes say from Hub 1189.60 N
S 1/16 Cor sets R. 1° 40' - 1541.2 ft.
Page 98 - says
Tower S 1/16 IM bet 2-3-141-31
take ties.
Red Oak 7 S 49°36' W 27.8
" " 5 S 18°18' E 52.1
Sec line N called True N 45

389.25
60-46
1043.85

1285.65
179.4
1465.05

1043.85
241.8
1285.65

Total from S 1/16 cor Sec. 2
Turn L 78°54¾' run E on N line
Govt. Lot 9 Sec 2-141-31
Correction W line Sec 2
0.0671275-2
hub 578.85 N goes W .68 W
" 868.20 N " 1.25 E
" 1189.60 N " 3.41 E

250
140.25
390.25
389.75

Apr. 22 - 1964 rain all day

Apr 23-1964
Bob + I to S 1/16 county iron capped
Rover S 1/16 site S 49°30' W on old tie tree blaze and run S 154.2 to old spike on true W line sec. 2-141-31
Rover S 1/16 site S on flag at old spike hub and turn L and run S 78°55' E @ 220 pin +152.6 = 372.6 hub + 282 = 654.6 hub + 389.25 = 1043.85 hub + 241.8 = 1285.65 hub + 179.4 = 1465.05 hub W edge of road

62

Tower 1465.05 BS S 78°55' W
run N 68°35' E 699.0

Tower 699. BS S 68°35' W
run N 29°20' E
Tower 313.2 BS S 29°20' W run
N 20°30' E 230.32
S 66°36' E Side of tract

Tower 699 BS S 68°35' W run
S 22°56' E 277.5
S 68°02' E 190.1
S 1°23' E 193.0
S 66°02' E 134.6 to TM

East	North	West	South
1437.73			281.64
650.73	255.24		
153.43	273.04		
583.32			252.43
2825.21	528.28		534.07

from S 1/4 Corner run S 78°55' E
1465.05 ft
thence N 68°35' E 699. ft
thence N 29°20' E 313.2 ft
thence S 66°36' E 635.6 ft to I M
on bank, 20 ft ± from water

S 78°55' E 1465.05'
Sine 98135 × 1465.05 = 1437.73 E
Cosine 19234 × 1465.05 = 281.64 S
N 68°35' E 699.0
Sine 93095 × 699 = 650.73 E
Cosine 36515 × 699 = 255.24 N
N 29°20' E 313.2
Sine 48989 × 313.2 = 153.43 E
Cosine 87178 × 313.2 = 273.04 N
S 66°36' E 635.6
Sine 91775 × 635.6 = 583.32 E
Cosine 39715 × 635.6 = 252.43 S

64

S78°55'E 1465.05'

Sine 98135 x 1465.05' = 1437.73 E

Cosine 19224 x 1465.05' = 281.64 S

N68°35'E 699

Sine 93095 x 699 = 650.73 E

Cosine 36515 x 699 = 255.24 N

S22°56'E 277.5'

Sine 38966 x 277.5 = 108.13 E

Cosine 92096 x 277.5 = 255.57 S

S68°02'E 190.1

Sine 92740 x 190.1 = 176.30 E

Cosine 37407 x 190.1 = 71.11 S

S1°23'E 193.0

Sine 02414 x 193 = 4.65 E

Cosine 99971 x 193 = 192.94 S

S66°02'E 134.6

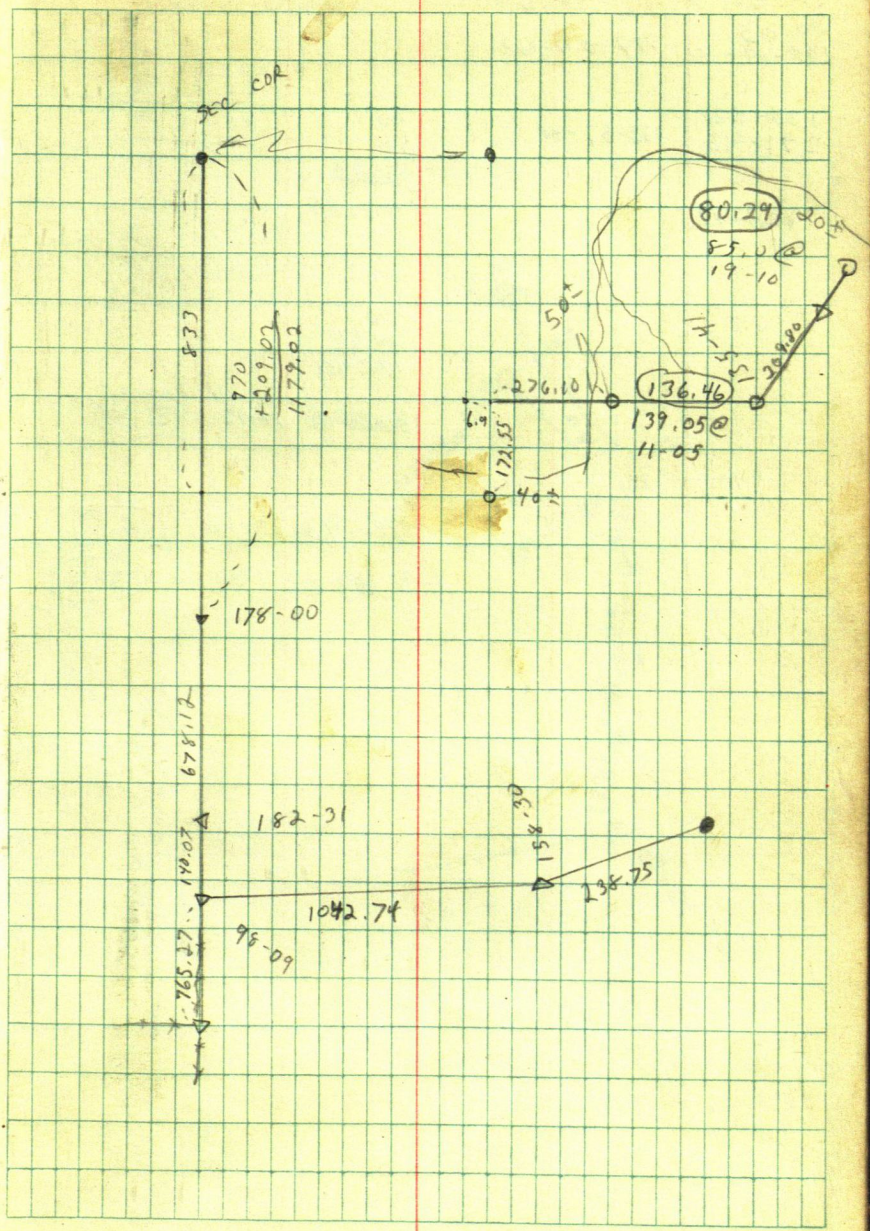
Sine 91378 x 134.6 = 122.99 E

Cosine 40621 x 134.6 = 54.68 S

East	North	West	South	
1437.73			281.64	57430
650.73	255.24			25524
108.13			255.57	31906
176.30			71.11	85574
4.65			192.94	25524
122.99			54.68	60070
2600.53	255.24		~~57430~~ 85594	

66 CLARENCE OLAFSON NW 1/4 28-141-32

177-59-30 356-00	178-00		128.12 550 678 12
182-31 5·03	182-31-30		170 09,02 209,02
98-09 196-18	98-09		
			755 10,27 765 27
158-30 317·00	158-30		
135-41 271·22	135·41		


SEE COP
833
970
+209.02
1179.02
178-00
675.18
110.07
182-31
1042.74
95-09
765.27
80.29
20±
85.0 @
19-10
50±
276.10
136.46
139.05 @
11-05
6.9
172.55
40±
158-30
238.75
39.80

99-05
198-09-30 99-04-45

179-59-60
135-51-30
47-8-30

135-52
271-43 135-51-30

40
40
46.35
144.35

120-12

180.0

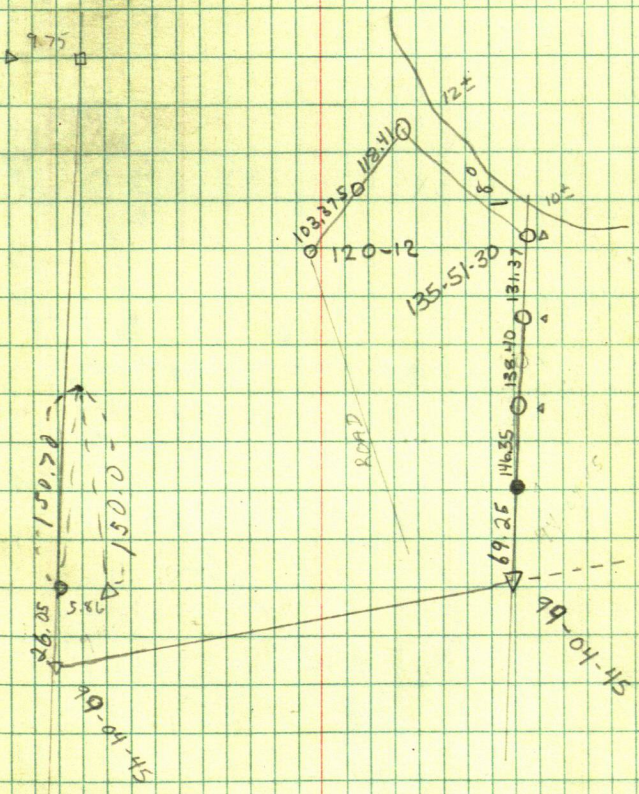
70
68.40
138.40

136.80 @ 16-12 131.37

135.74 @ 29-16 118.41

104.89 @ 9-45 103.375

CLARENCE OLAFSON RON - ED DEC. 8, 1975



57-06
114-12

155,04

860.62

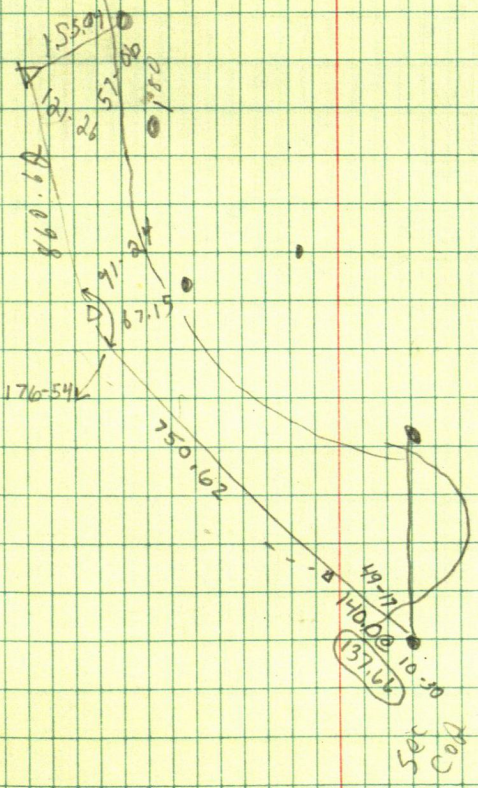
121-26
242-52

140.@ 10-30

720.62

176-54
353-46

49-17
98-34


A
153.09
57-08
180
121.25
B
410.18
D
91-24
87.15
176-54
750.62
49-17
140.00
137.64
10-30

72

W G JOHNSON SW-SE SEC 4 141-31

170-56
341-52
112

170-56

300
174.59
115.41

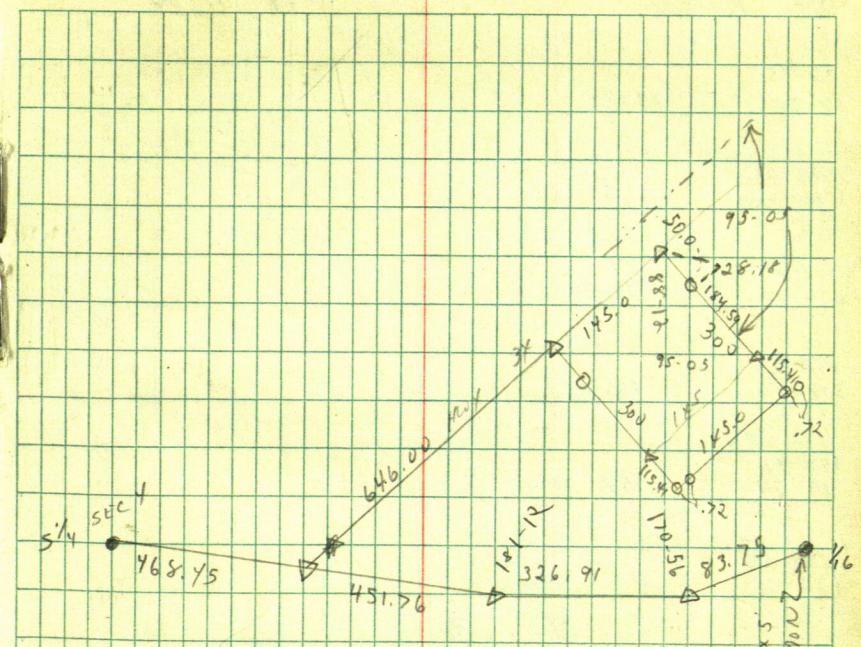
181-12
362-23
49-56
99-50

181-11. 30
44-

160
160
200
31.76
451.76

88-12
176-24

126.0
120
400
646.0


95-05
50.0
228.18
184.59
88-12
145.0
300
95-05
115.40
.72
300
145.0
115.40
.72
646.00
170.56
83.75
1/46
5-1/4
54°C
468.45
451.76
1"x-12
326.91
KEYSET 3" x 5"
BRASS CAP MON

74

HARRY PETERSON 1-29-141-32

33-45
67-30 33-45

223-06
86-12 223-06

144-34
289-69 144-34-30

155-53
311-46 155-53

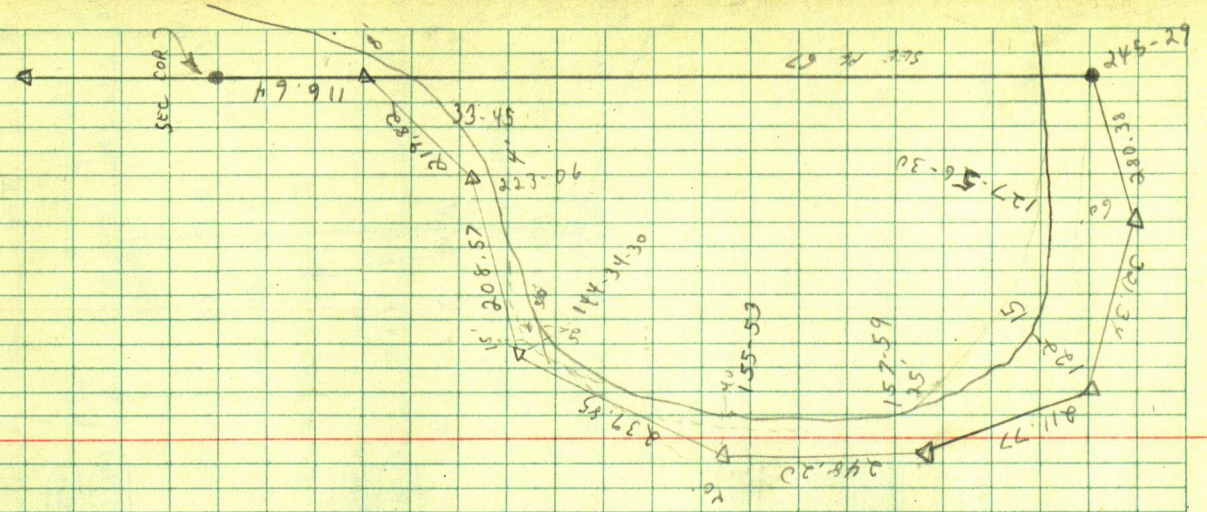
157-59
315-58 157-59

245-29
130-58 245-29

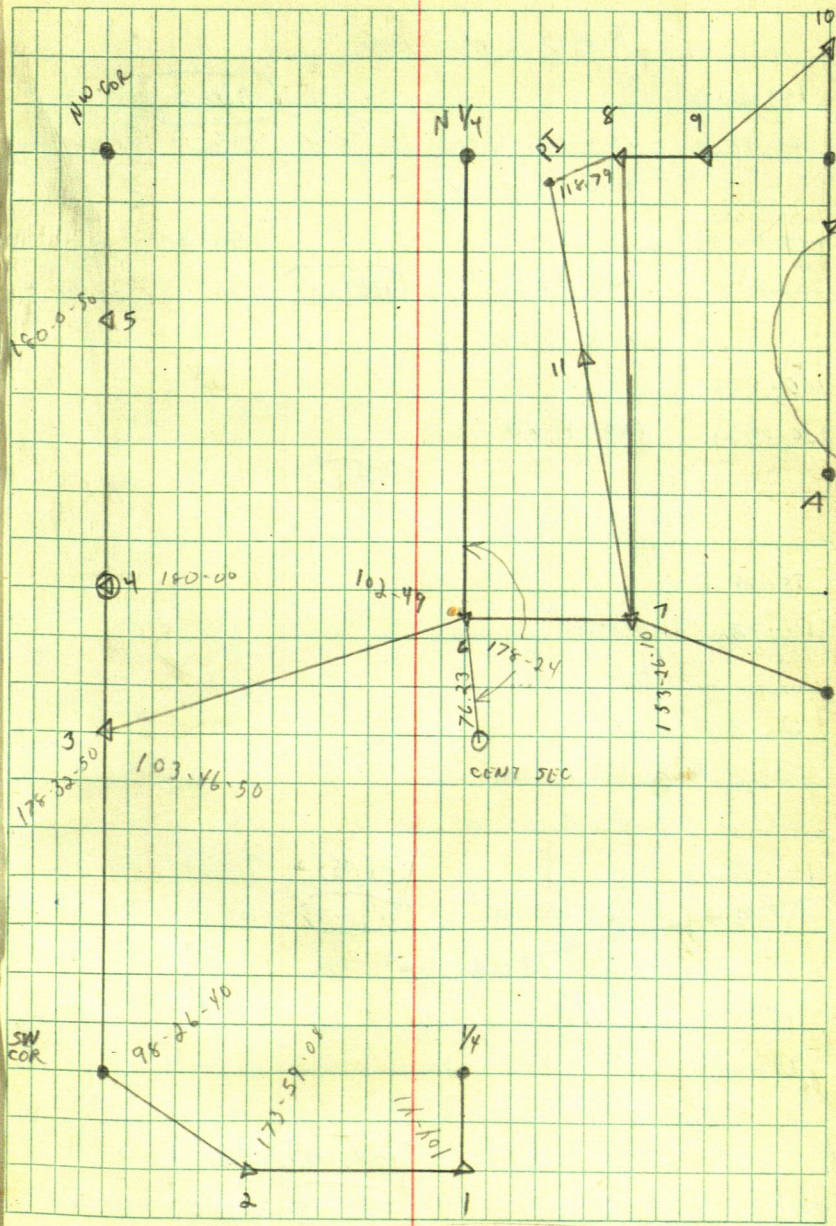
127-56
255-55 127-

127-57
255-53 127-56-30

122-15
244-30 122-15


SEE FOR
119.64
28°41'
33.45
223.04
204.57
144.34.30
155.53
157.59
137.45
245.29
380.38
127.56.30
60
SEE FOR
411.77
346.30

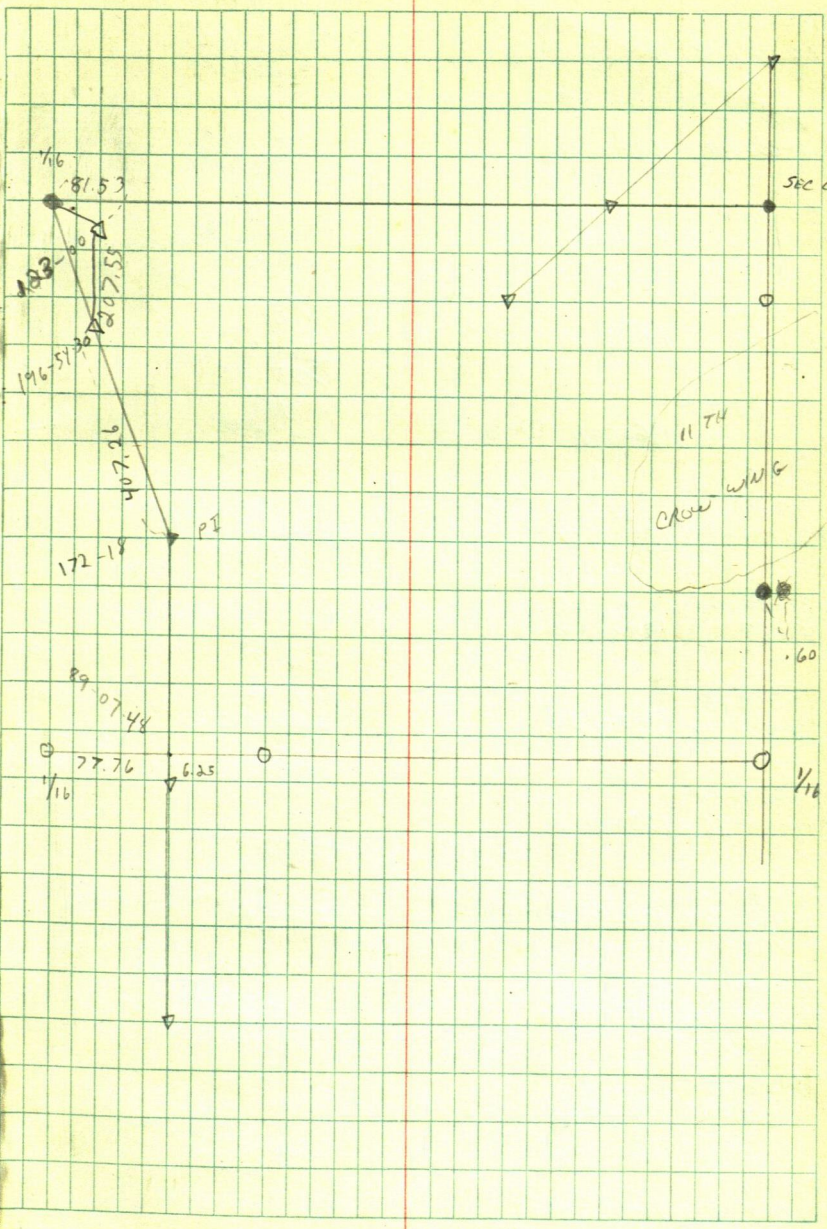
		T @ 1 BS 2			
	104.41		1453.308	1453.81	271-30-20
S¼	209-22	104.41	326.947	327.52	273-23-20
		T @ 2 BS SW COR			
1	173-59-10 347-58-15	173-59-08			
		T @ SW COR BS 3			
	98-26-40		2129.222	2129.26	269-39-30
2	196-53-20	98-26-40	1087.931	1087.96	269-35
		T @ 3 BS 6			
	103-47-00				
SW COR	207-33-40	103-46-50			
	1				
	178-33				
W¼S	357-05-40	178-32-50			
4			508.504	508.66	268-35
	T @ 5 BS 3				
	180-0-50		1508.108	1505.11 ~~1508.31~~	90-06—
NW COR	0-1-40	180-0-50	1638.697	1639.19	91-24-20
		T @ 6 BS 3			
	102-49		2660.206	2660.21	90-06-10
N¼	205-38	102-49	2534.796	2534.88	90-28
		T @ 6 BS 7			
	178-25		1466.04	1466.04	89-58-20
3	356-50				


NW COR
N 1/4
PI
8
9
10
NE COR
114.79
11
5
180-0-30
4
180-00
102-49
7
176-24
76-33
153-26-10
E 1/4
3
178-32-50
103-46-50
CENT SEC
A
SW COR
98-26-10
173-59-05
1/4
1
2

172-18
344-36

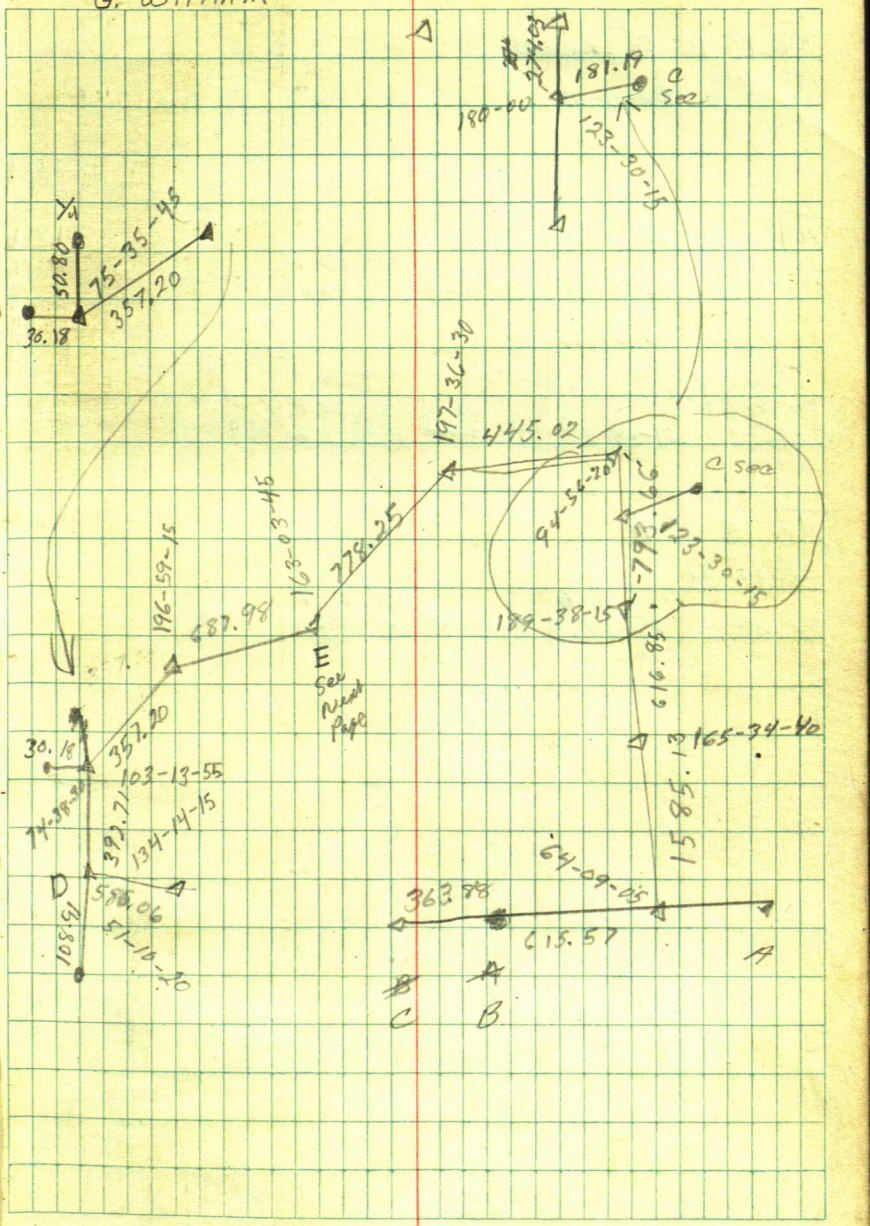
196-55
33-44 196-54-30.

123-00
246-01


1/16
81.53
SEC COR
N 30 E
207.55
196-54-30
307.26
PI
172-18
11TH
CROW WING
.60
89 07 48
77.76
6.25
1/16
1/16

134-14-10		400
268-28-30	134-14-15	- 7.29
		392.71
51-10-20		360
102-20-40	51-10-20	- 2.8
		357.20
74-40-30		690
149-17	74-38-30	- 2.02
		687.98
103-13-40		780
206-27-50	103-13-55	- 1.75
		778.25
196-58-55		450
38-58-30	196-59-15	- 4.98
360		445.02
399		820
168-09-30		- 6.34
326-07-30	163-03-45	799.66
		274.03
197-36-25		620
35-13	197-36-30	- 3.15
		616.85
94-56-50		390
189-52-40	94-56-20	290
		290
123-29-50		290
247-00-36	123-30-15	130
		1590
189-37-50		- 4.87
19-16-30	189-38-15	1585.13
165-34-30		620
331-09-20	165-34-40	- 4.43
		615.57
64-09-20		370
128-18-10	64-09-05	- 6.12
		363.88
74-35-48		
149-11-30	74-35-45	

G. WITHAM


181.19
180-00
123-30-15
C
See
X
511.80
75-35-45
357.20
30.18
197-36-30
445.02
94-54-30
79.55
123-30-15
C See
189-38-15
58.96
3165-34-40
1585.13
64-09-45
363.88
C15.57
A
B
C
774.25
113-03-45
687.98
196-59-15
E
See
Next
Page
30.18
357.20
103-13-55
77-38-30
393.71
134-14-15
D
558.06
108.51
51-10-20

T@E BS F
182-11-46
04-23-30 182-11-45

T@C BS F Vert Dist+
25-26-30 33-00 727.69 F
50-52-40 25-26-26 271-~~54-56~~ 221.806 M 727.424

T@C BS F
21-58-32 25.48 655.05 F
43-56-54 21-58-27 271-~~05-02~~ 199.661 M 654.846

T@B BS H
95-34-36 H 117.51 F
191-08-30 95-34-15 90-42-38 38.819 M 117.50

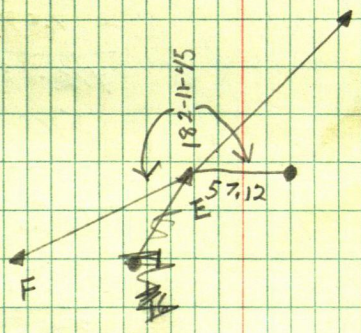
Glen William

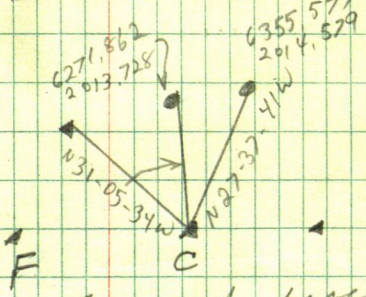
Ties for W ¼ Sec 18 T40-R30

20" NP S 85° W 16.35

8" WO S 20° E 16.40

NE Cor House N 60° W 75.87





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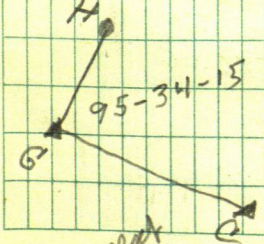

See next page

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G. WITHAM

143-29-40
286-59-30 143-29-45

187-23-30
14/-47-40 187-23-50

200-49-50
41-40 200-50

198-56-30
37-53-50 198-56-55

139-58-30
279-56-50 139-58-25

53-56-40

199-38-45
39-17-40 199-38-50

161-00-50
222-02-20 161-01-10

179-01-50
358-04 179-02

207-37-30
55-15-20 207-37-40
360
416

510
- 8.13
501.87

480
- 7.57
472.43

510
2.29
507.71

330
- .11
329.89

280
- 6.14
273.86

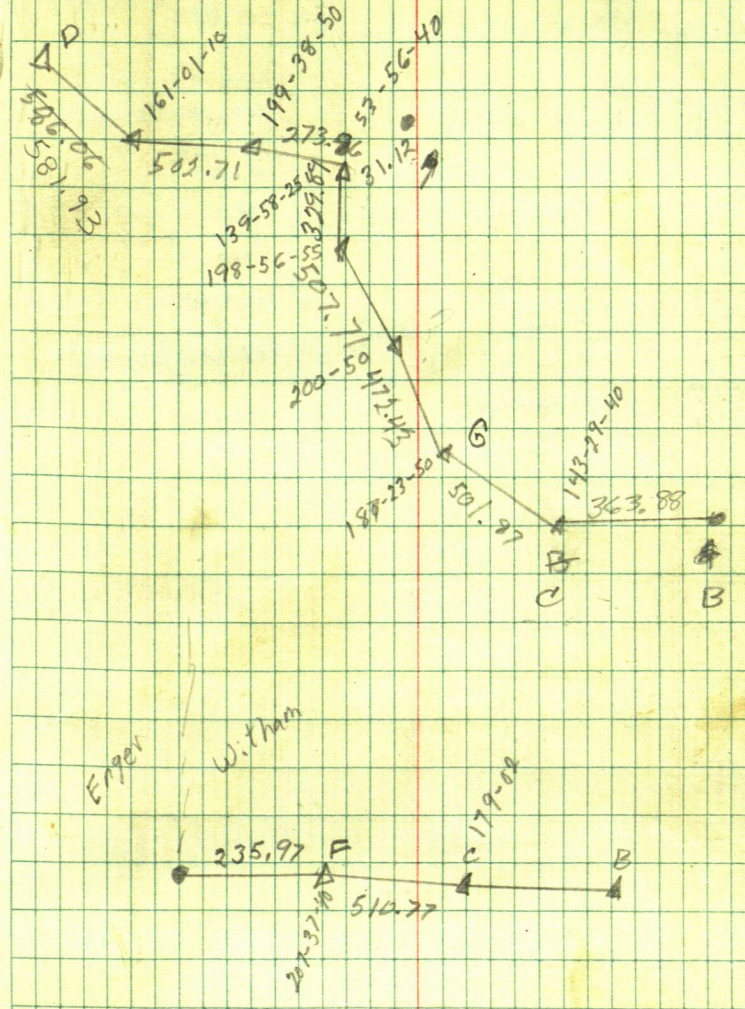
516
- 7.29
508.71

588
- 1.94
586.06

240
- 4.03
235.97

581.93

See Page 83


D
161-01-10
199-38-50
53-56-40
501.71
273.26
31.13
139-58-25
198-56-55
329.81
200-50-47
47.43
188-23-50
50.27
143-39-40
363.88
C
B
Enger
W. tham
235.97
F
179-02
E
B
207-37-10
510.77

28-141-32

155-29-30
310-58-48

155-29-24

54.84

66-50-24
133-40-50

66-50-25

~~98.0~~
200.0 @ 92-08-50
+65.14

77-38-51
155-17-18

77-38-39

135.0
17.23

171-17-29
342-34-45

171-17-23

151.53@ 102-33-18
137.08@ 273-20-55

214-19-03
68-37-51

214-18-56

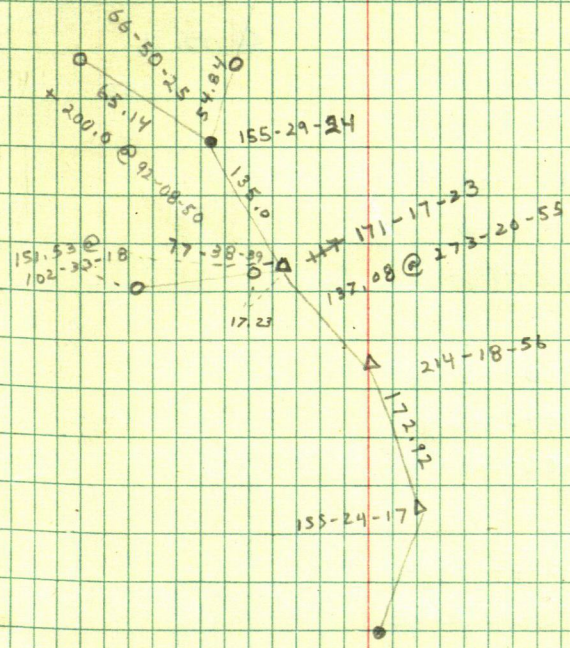
172.92

155-24-17

CLARENCE OLAFSON 12/5/78

SEE PAGE 67

RON, ED, KEN



HUMMEL'S BROADWATER BAY

181-32-08
363-03-14 181-31-57 ① 116.60

265.343 ② @ 98-48-18 + 200.0
67.70

95-43-~~42~~
191-27-06 95-43-33
103-51-18
207-42-18 103-51-09 ③ 85.30

T @ B BS A TURN LEFT 196.33

CABIN ①

139' @ 316-51-06

123' @ 311-10-50

141' @ 302-05-16

CABIN ②

76' @ 280-42-44

67' 257-36-40

86' 256-10-04

CABIN ③

190' @ 248-07-20

178' @ 244-21-50

205' @ ~~204~~ 238-37

CABIN ③

98' @ 230-15-30

88' @ 221-19

111' @ 213-49

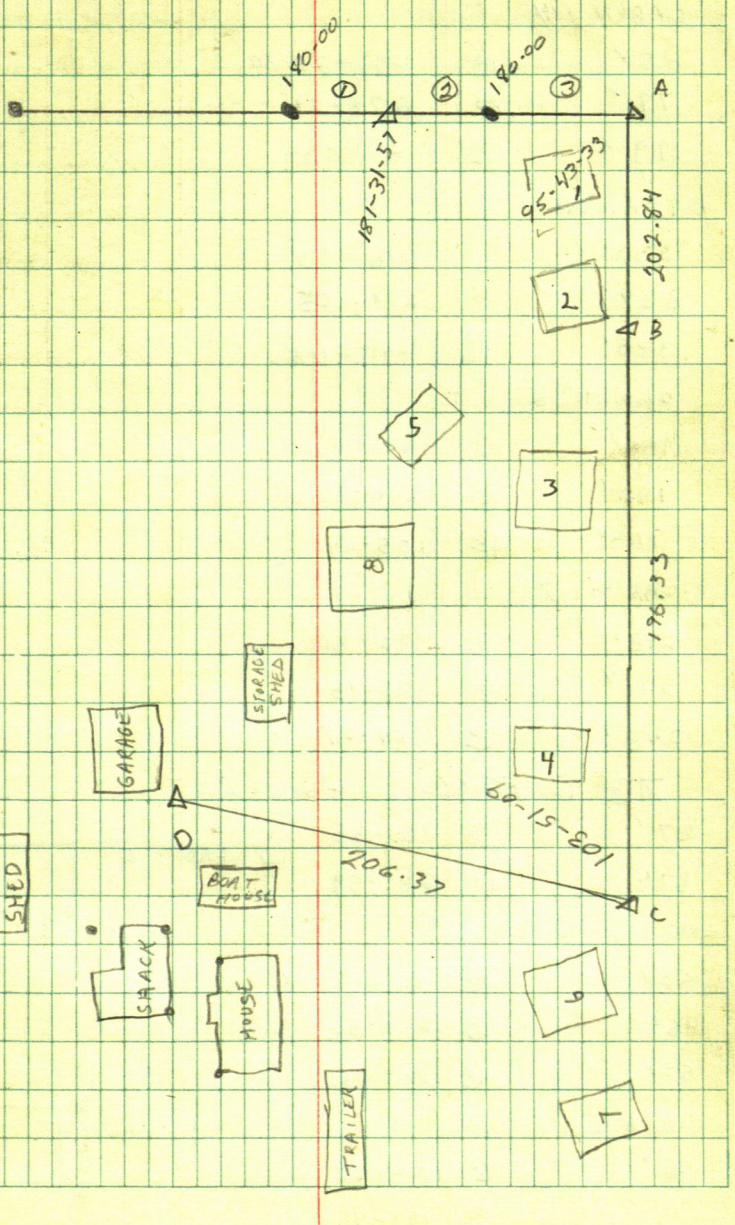
~~SHORE LINE~~ T @ C BS A TURN LEFT

129' @ 347-31

56' @ 294-41

232' @ 179-55-42

RON, PAUL, KEN 12/15/78



T @ C BS A TURN LEFT

CABIN (4)

1 85' @ 299-28-30
2 79' @ 278-26
3 99' @ 278-34

TRAILER

4 333' @ 216-54
5 327' @ 215-05
6 385' @ 209-48

CABIN (6)

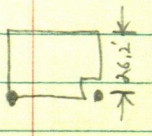
7 154' @ 206-14
8 142' @ 200-24
9 165' @ 195-04

CABIN (7)

10 218' @ 192-50
11 211' @ 188-15
12 248' @ 184-57

T @ D BS C TURN LEFT

67' @ 300-35 > CABIN 8
67' @ 281-59

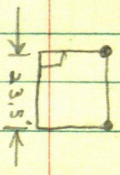


STORAGE SHED

58' @ 268-44
45' @ 257-50
53' @ 249-44

GARAGE

32' @ 224-22
34' @ 189-49



TC	D	BS	C	TURN LEFT
SHED				
~~18~~ 95'	@	184-53		
87'	@	182-48		
95'	@	171-42		
SHACK				
~~55~~ 69'	@	170-39		
55'	@	157-10		
80'	@	145-21		
HOUSE				
95'	@	111-19		
54'	@	103-29		
63'	@	83-47		
BOAT HOUSE				
47'	@	32-58		
32'	@	31-54		
34'	@	17-18		

96

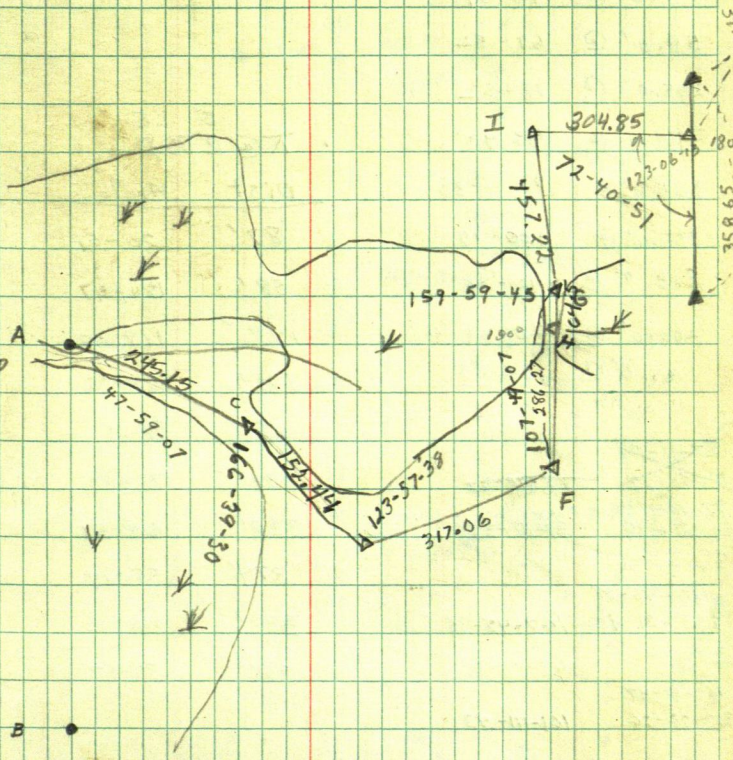
HARLAN HUMMEL — RON, PAUL, KEN

– SWAMP –

	T @ A	BS B	TURN RT.	
①	283.0'	@ 179-54-58		39.51
②	284.0'	@ 198-19		
③	308.0'	@ 217-15		
④	325.0'	@ 227-26		100 70 60 230 30 260 44.85
⑤	227.0'	@ 254-18		
⑥	156.0'	@ 272-36		
⑦	104.0'	@ 261-24		
⑧	24.0	@ 260-29		
	47-59-10 95-58-14	47-59-07		

	T @ B	BS A	TURN RT.	
9	483.0'	@ 00-00		
10	408 408.0'	@ 17-05	123-57-40 247-55-18	123-57-38
11	390.0	@ 25-14		
12	365.0	@ 36-42	107-49-06 215-38-14	107-49-07
13	344.0'	@ 47-54		
14	308.0 308.0'	@ 59-54	159-59-48 319-59-29	159-59-45
15	265.0'	@ 65-16		
16	174.0'	@ 90-06-30	72-41-06 145-21-42	72-40-51
	166-39-50 333-19-00	166-39-30	123-06-26 246-12-26	123-06-13

4/3/79


I
304.85
72-40-51
127.06
457.22
159-59-45
1900
Fig 13
A
ROAD
147-59-01
152.44
143-57-39
317.06
72-40-51
127.06
39.5
180°
358.65
B

SWAMP

	T @ C	BS A
1	25.0' @	48-37
2	58.0' @	69-52
3	245.0' @	78-52
4	270.0' @	93-43
5	305.0' @	92-10-30
6	316.0' @	100-19
7	318.0' @	112-08
8	200.0' @	120-53
9	85.0' @	175-09

~~97-11-08~~
~~194-31-24~~ ~~97-10-42~~
97-10-46
194-21-18 97-10-39

167-45-38
335-31-10 167-45-35

161-41-48
323-23-26 161-41-43

161-27-24
322-54-30 161-27-15

~~141-34-28~~
~~283-07-48~~ ~~141-33-54~~
141-34-04
283-07-54 141-33-53

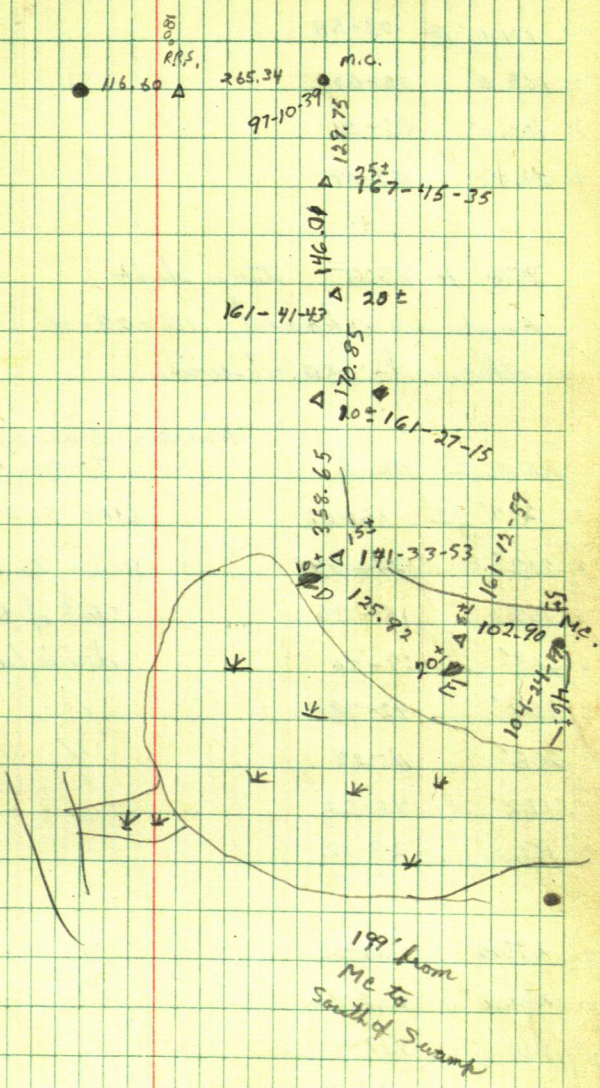
161-14
322-26
161-12-48
322-25-18 161-12-59

TURN RT.

	T @ D	BS E	Dist	Angle
1			87'	20-51
2			58'	184-47
3			149'	119-00
4			175'	108-22
5			230'	91-45
6			290'	78-29
7			332'	64-51
8			374'	55-14
9			397'	45-13
10			358'	34-53

104-24-30
208-48-38 104-24-19

SEE PAGE 91


R.R.S.
116.60
265.34
M.C.
97-10-39
129.75
25±
167-15-35
146.00
20±
161-41-43
170.85
20±
161-27-15
158.65
10±
15±
141-33-53
161-13-59
125.82
102.90
55
Mc.
104-24-55
199' from
Mc to
South of Swamp

	℄ @ G	BS F	SWAMP	TURN RT
1	101.0' @	03-58		
2	165.0'	26-60		
3	100.0'	86-20		
4	21.0'	127-29		

℄ @ H BS F turn left
Angle in channel 118-03-18
Channel 50.0' wide

primary drainfield

	℄ @ I	BS G	TURN RT
1	230' @	351-07	LIFT STATION
2	212'	01-52	Pipe to drainfield
3	188'	18-36	start of drainfield
4	208'	29-20	drainfield
5	209'	42-38	"
6	205'	42-28	"
7	172'	46-52	
8	156.0'	28-12	
9	295.0'	214-36	SEPTIC TANK
10	280.0'	212-36	LIFT STATION
11	198.0'	217-45	
12	103.0'	223-11	
13	147.0'	195-35	
14	165.0'	195-37	

4-141-31

83-22

166-43-54 83-21-57

178.05
50
228.05

~~134-08-02~~
~~268-15-30~~ ~~134-07-45~~

134-08-20
268-16-18 134-08-09

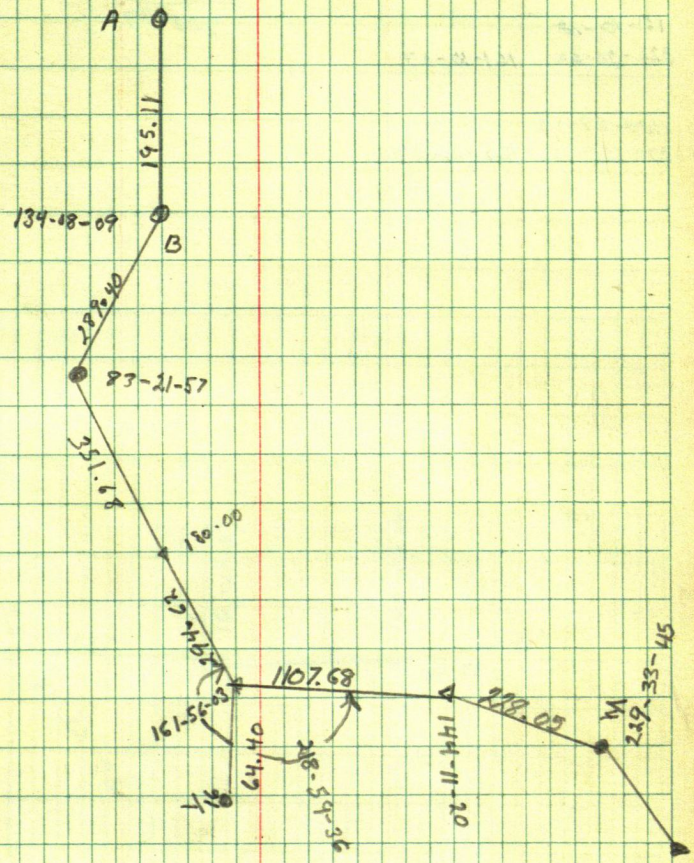
161-56-10
323-52-06 161-56-03

218-59-43
77-59-10 218-59-36
360
477

144-11-24
288-22-48 144-11-20

229-34-06
99-07-30 229-33-45
360
459

John Baird April 18 1979

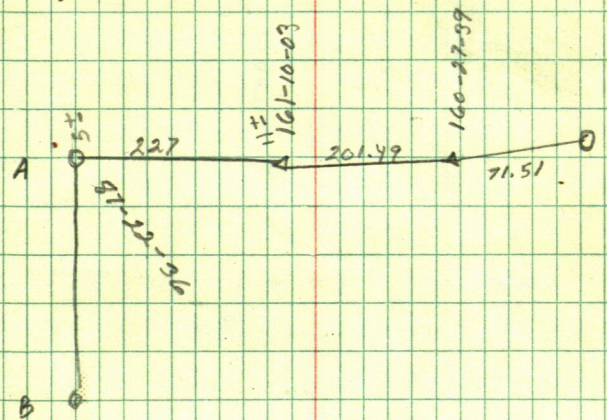


87-22-40
184-45-12 87-22-36

161-10-12
322-20-04 161-10-03

160-27-52
320-55-18 160-27-39

227
201-49
428.49


A
Sta
227
87-22-36
B
Sta
161-10-03
201.49
100-32-39
71.51

RON PAUL, KEN 5/16/78

T@ X BS Y RT.

LOCATE 371 ℄

116.0' @ 24-21

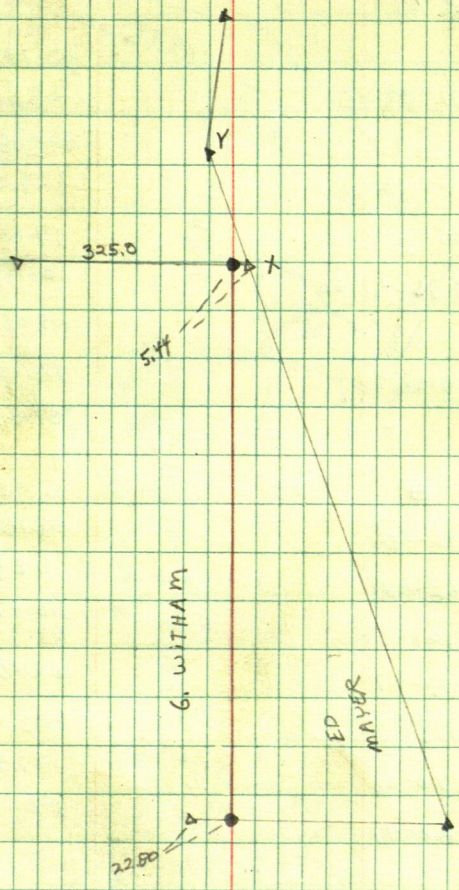
74.0' @ 35-40

39.0' @ 90-58

62.0' @ 146-20

120.0' @ 161-58

G. WITHAM N. OF H.



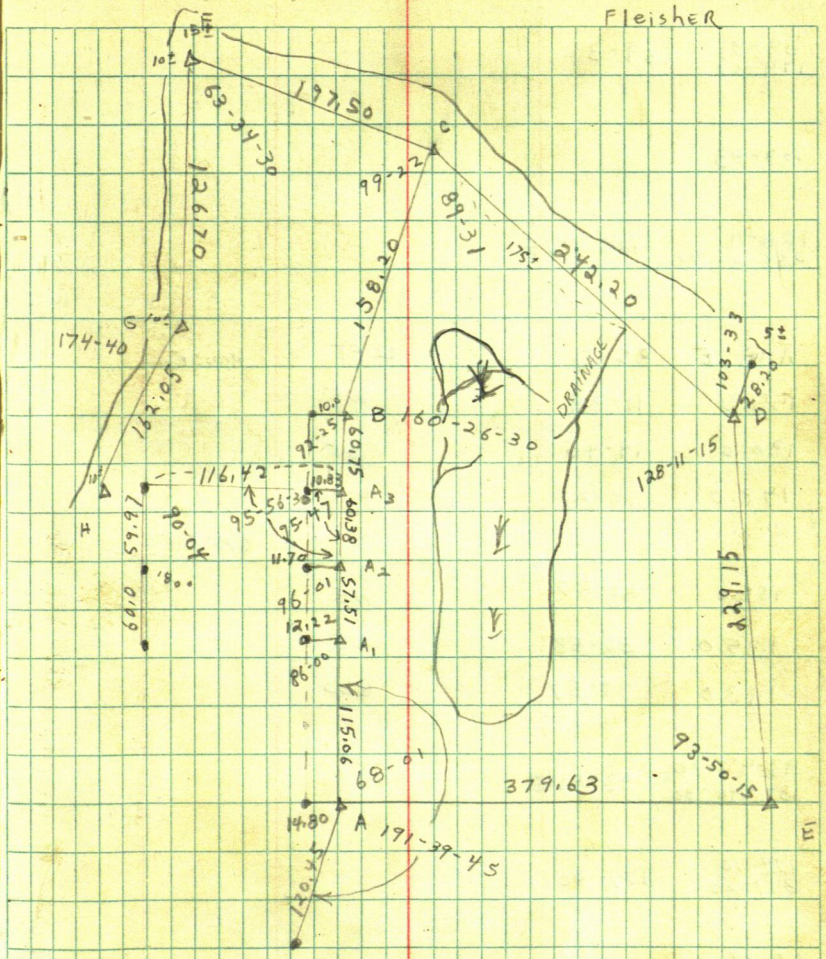
RON - DOUG | 7/13/78 | BOB Fleisher

68-01 136-02	68-01	
		242.20
191-40 23-19-30	191-39-45	28.20
		229.15
86-00 96-01		379.63
92-25 95-47		14.80
95-56 191-53	96 95-56-30	120.45
		115.06
160-27 320-53	160-26-30	12.22
		57.51

π@ A_3	BS B	RT	SWAMP	
				11.70
48.0'	40-35			60.38
				60.75
40.0'	62-03			10.83
				116.42
40.0'	130-04			59.97
89.0'	136-27			162.05
100.0'	112-10			126.70
95.0'	90-38			197.50
				158.20
120.0'	62-41			
99-22 198-44	99-22			

π@ C	BS B	LAKESHORE		
60.0'	124-20		200.0'	264-23
37.0' @	179-25			
78.0'	246-28			
139.0'	262-55			

Fleisher


197.50
63-34-30
126.70
99-22
89-31
175.
242.20
158.30
174-40
162.05
116.42
95-56-30
59.97
60.0
40-04
96-01
12.22
88-00
90.15
68-01
379.63
93-50-15
229.15
128-11-15
103-33
28.20
191-39-45
130.45
DRAINAGE
B 160-26-30
A
A1
A2
A3
A4
A5
A6
A7
A8
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A10
A11
A12
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89-31
179-02

89-31

103-33

128-11
256-22-30

128-11-15

AT @ E	BS D	LEFT	HOUSE
155.0	11-34	NE	
130.0	14-45	SE	
143.0	15-24	SW	
			GARAGE
155.0	26-57	NE	
135.0	32-58	SE	
143.0	37-57	SW	

93-49-30
187-40-30

93-50-15

174-40
349-20

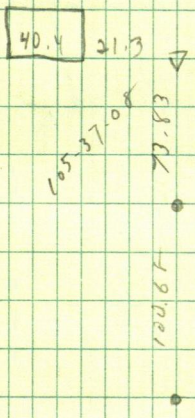
174-40

63-34
127-09

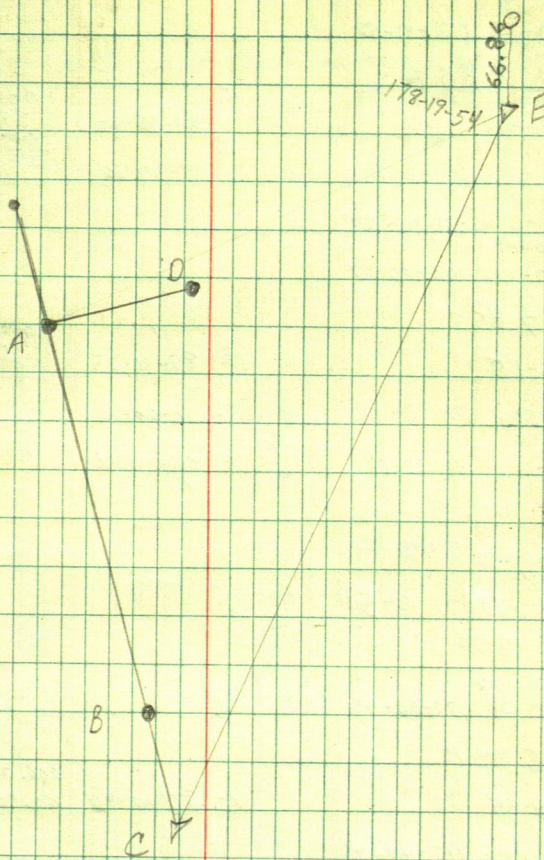
63-34-30

THOMA

5-6407


40.4
21.3
105-37-08
73.83
124.84

	T @ A	BS	B			
	279-19-02					
D.	366 558-38-04	279-19-02		Chained	67.02	
	T @ A.	BS	E			
	89-07-36			92-25-30	262.99	262.754
C	178-15-02	89-07-31		270-40-42	244.36	244.34


66.860
178-19-54
E
D
A
B
C

HACKENSACK

DON JENSON — LOT 1-5 HAMMONDS ADD

Λ@ 2 BS 1

57-41-59

3. 115-23-55 — 57-41-58

Λ@ 3 BS 5

2. 180-41-08

361-21-37 — 180-40-47

171-41-58

4. 343-23-55 — 171-41-57

103-20-14

7. 206-40-14 — 103-20-07

Λ@ 7 BS 3

5

8. 82-05-55

164-11-50 — 82-05-55

80-22-40

7. 160-45-10 — 80-22-35

Λ@ 9 BS 1

170-07-38

10 340-14-57 — 170-7-29

171-25-13

11 342-49-48 — 171-24-54

Λ@ 12 BS 9

72-06-44

5. 144-13-36 — 72-06-45

Λ@ 5 BS 12

112-44-54

225-29-30 — 112-44-45

Λ@ 5 BS 3

178-42-06

6. 357-24-04 — 178-42-02

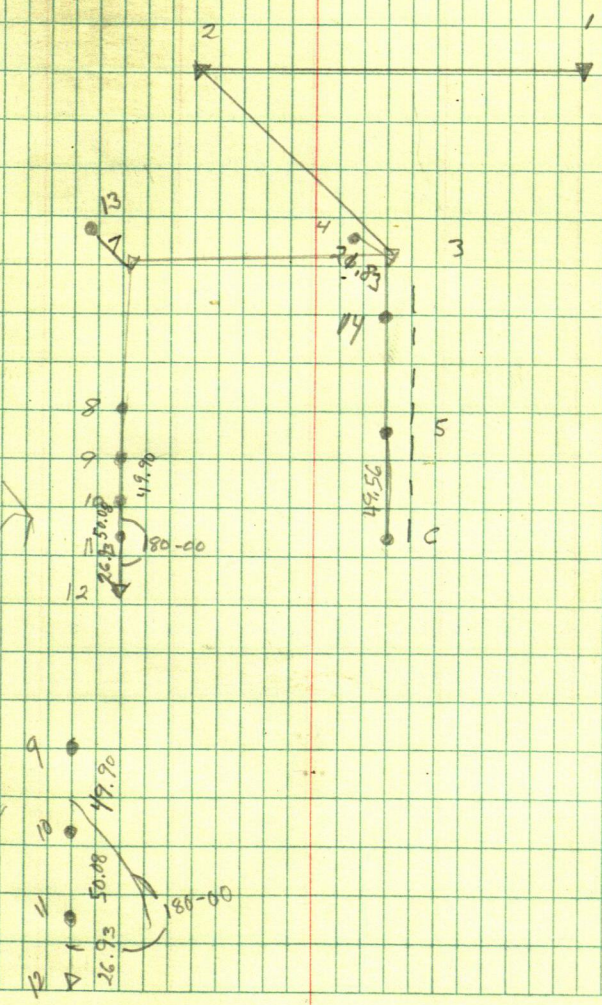
Λ@ 3 BS 5

Locate Well

SE cor	138'	70-46-00
NE cor	138'	72-23-00
NW cor	145'	73-00-00

5.		188.75	188.716
	88-55-60	57.533	
2.		395.81	395.661
	91-34-26	120.651	
3.	87-10-25	193.88	193.644
		59.098	
		137.31	137.308
8.	90-20-10	41.852	
		187.06	186.942
9.	268-27-00	57.017	
	chain		
10			
	chain		
11			
		206.33	205.875
12.	94-00-34	62.887	

Points 1 + 2 are nails used in survey for Glen Witham
See page 83

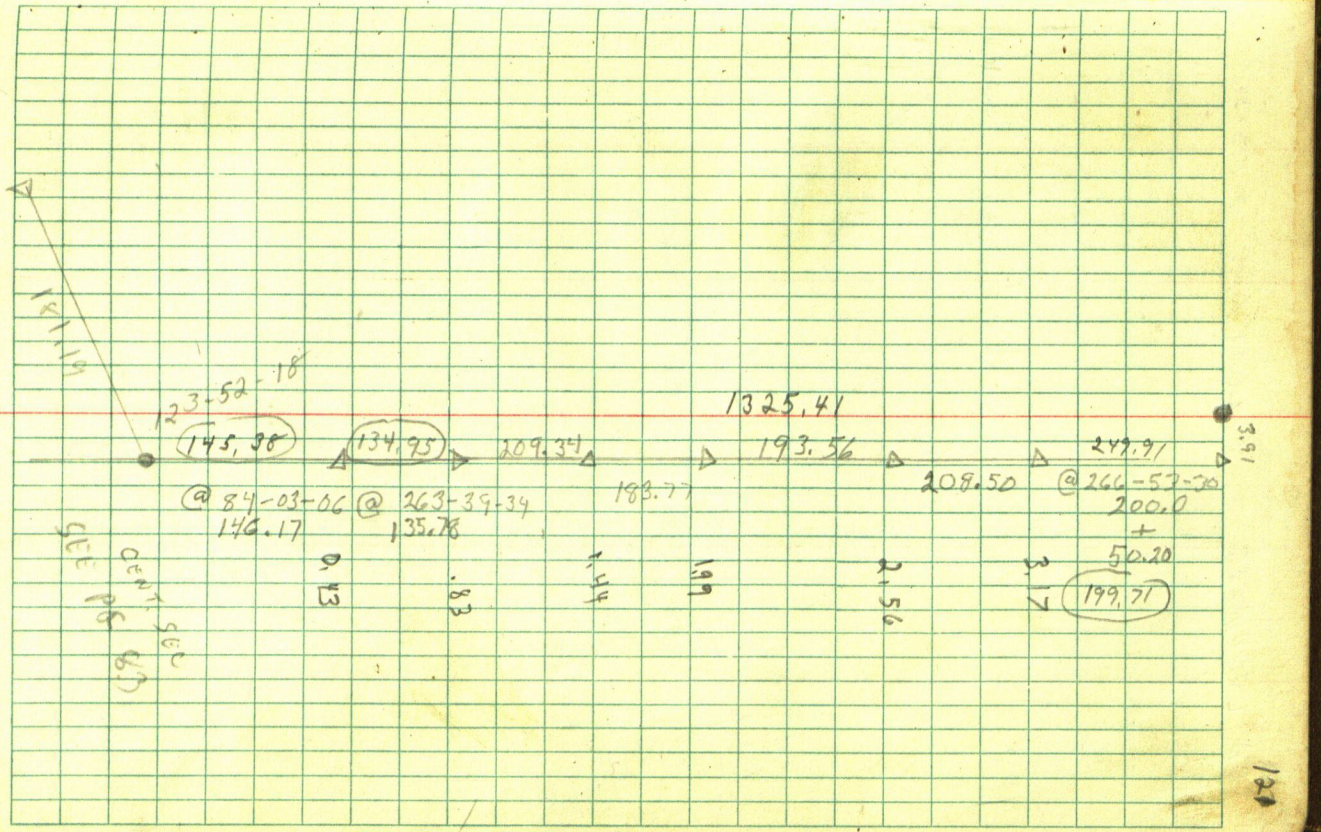


At 7 BS 8
154-06-50
13. 368-13-22 154-66-50 chain 11.26 to 13

At 3 BS 7
260-11-42
14. 420-22-54 260-11-27 chain 38.51 to 14

Dave Miller 1f-140-30

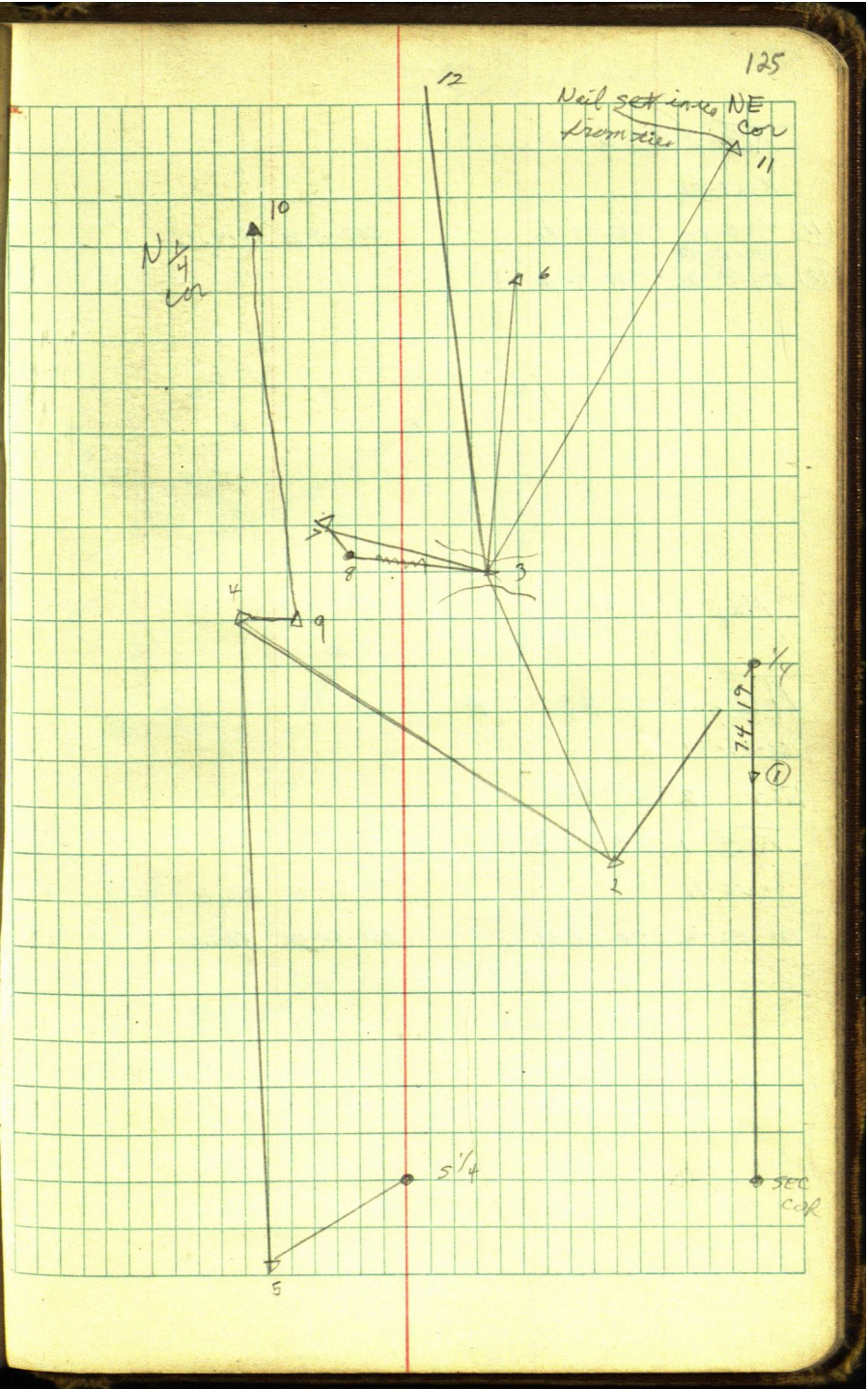
3
202
194
184
209
133
145
1073


123-52-18
145.38
134.95
209.34
1325.41
193.56
249.91
3.91
@ 84-03-06
146.17
@ 263-39-34
135.78
198.77
208.50
@ 266-53-30
200.0
+
50.20
199.71
0.43
.83
1.44
1.99
2.56
3.17
CEE
Cent
SEC
PSC

TED. LUNDBERG PILLAGER 11-133-39

GEORGE KRUSHE 291 291 291

			360 / 40	239 / 119 / 358	360 / 119 / 479
HOWE			NE¼-7-139-29		
⊼ @ E¼	BS SE COR SEC				
180-00			90-0-14	2642.27	2642.27
①			tape	74.9	
⊼ @ 1 BS SE cor					
② 54-14-16 / 108-28-24	54-14-12		90-23-48	897.60	897.579
⊼ @ 2 BS 4					
100-14-04			90-11-36	2644.24	2644.224
① 200-28-04	100-14-02				
③ 40-43-24 / 81-26-34	40-43-17		269-08-04	1637.00	1636.813
⊼ @ 5 BS 4					
43-00-32			90-04-18	4437.16	4437.157
(S¼) 86-00-54	43-00-27		90-11-16	775.46	775.456
⊼ @ 4 BS 2					
⑤ 53-54-12 / 107-48-34	53-54-17				
⊼ @ 3 BS 6					
162-44-32			90-15-24	678.74	678.733
② 325-28-52	162-44-26				
⊼ @ 3 BS 2					
⑦ 96-25-54 / 192-51-26	96-25-43		273-16-42	580.47	579.52
⊼ @ 7 BS 3					
⑧ 43-03-46				30.83	
⊼ @ 9 BS 10					
239-53-44			87-41-36	1241.88	1240.873
④ 479-47-20	239-53-40		88-39-34	252.24	252.171
⊼ @ 4 BS 5 L to 9					
221-27-52 / 442-55-24	221-27-42				


12
Nail set in NE
from tree
COR
11
10
N 1/4
COR
6
8
7
3
4
9
1/4
74.17
1
2
5 1/4
SEC
COR
5

A@ 3 BS C

15-55-30

(11)	31-57-00 347-19-48	15-55-30		269-57-28	1818.66
(12)	694-39-20	347-19-40			

May 6, 1981

A@ 3 BS A

88-04-54

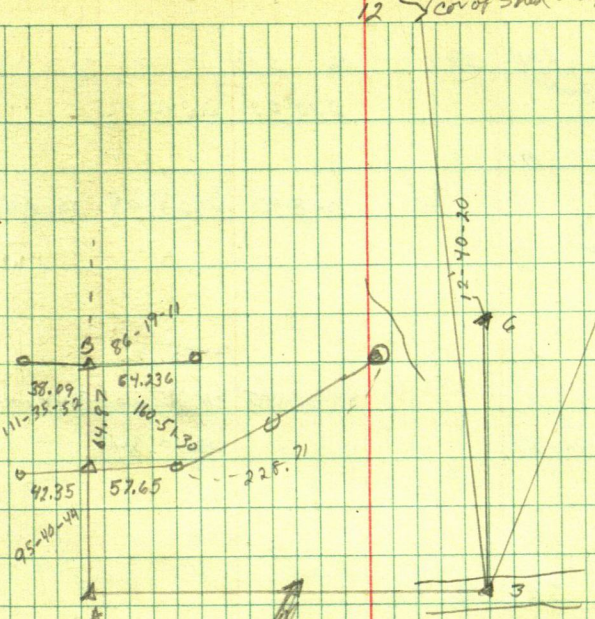
176-09-52 88-04-56

A@ A BS B

95-26-36 88-59-00 288.19 288.144

(3) 190-52-52 95-26-26 266-54-40 504.60 503.867

SE cor of shed roof



HAROLD E.

T@ SW COR SEC BS S 1/4

270-04 2640.0

T@ 1 BS MC

1 15-16-33 90-18-40 2968.98 2968.936

2 30-32-56 15-16-28

T@ 1 BS 2 ~~3148.22~~

82-14-33 89-35-45 3148.22 3148.142

S1/4 164-29-03 82-14-21 2220.84

SW COR 419.15

2639.99

T@ 3 BS SE COR SEC

179-29-20 89-58-54 1313.68

S1/4 358-58-30 179-29-15 267-32-30 1337.65 1337.621

T@ S 1/4 Cor BS Sec Cor SW

③ 179-44-30
359-28-44 179-44-22

④ 89-51-24
179-42-36 89-51-18

T @ SE COR BS 3

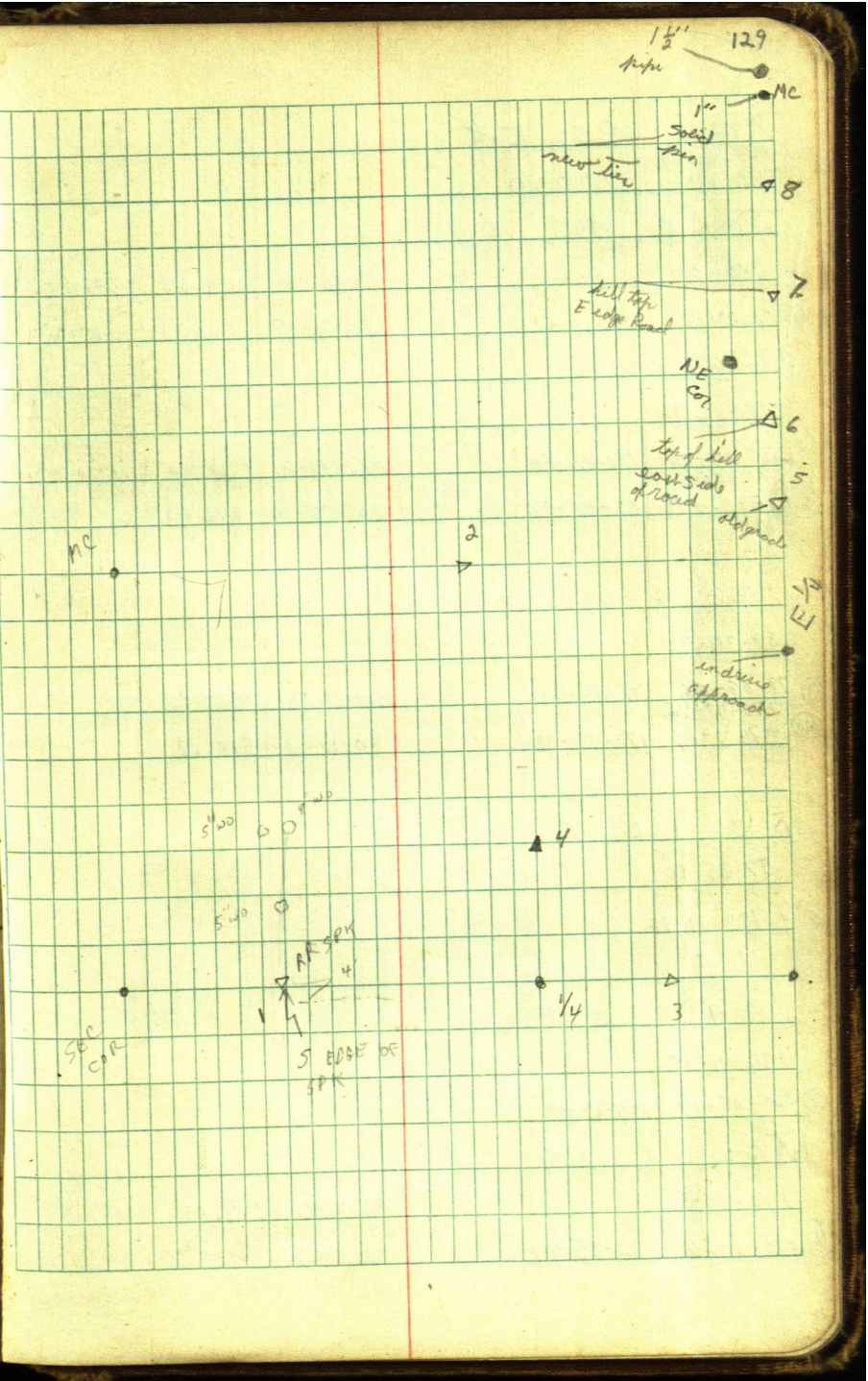
87-27-56

E 1/4 174-55-40 87-27-50

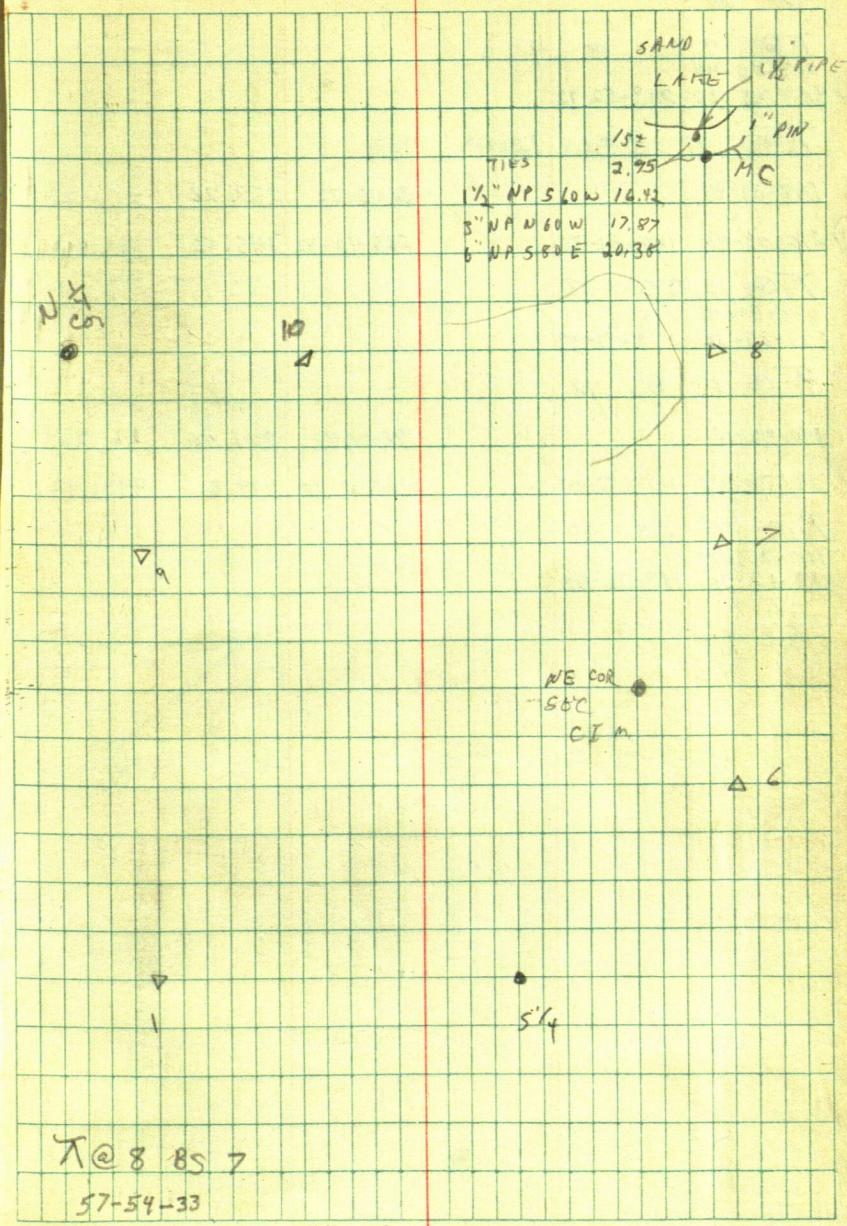
T@ E 1/4 Cor BS SE Cor

179-48-50 89-55 2652.18 2652.177

⑤ 359-37-28 179-48-40 270-20-12 868.01 867.995


1½" Pipe
MC
1" Pipe
Spike
Tree
Tree
8
7
Hill Top
E edge Road
NE Cor
6
Top of Hill
5
South side of Road
Edge road
2
NC
E¼
In drive Approach
4
5 WO
5 WO
RR Spk
4'
1
1/4
3
SEC COR
5 EDGE OF SPK

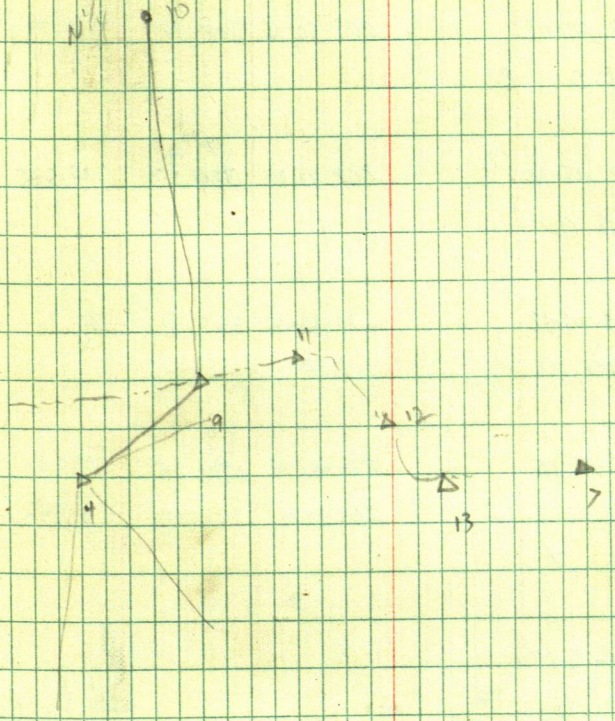
Δ@ 5	BS E¼				
179-50-36					
359-41-00	179-50-30				
Δ@ 6	BS 5				
180-20			91-56-30	645.58	645.209
(7) 360 39-42	180-19-51		269-46-30	1266.20	1266.19
Δ@ 7	BS 6				
181-04-36					
(8) 362-09-00	181-04-30		267-49-20	1061.62	1060.853
NE 02-56-20					
COM 05-52-46	02-56-23		267-35-30	276.52	276.276
Δ@ 8	BS 7				
39-34-30					
(9) 79-08-56	39-34-28		270-01-50	7574.12	
178-43-42					
(M@) 357-27-06	178-43-33		90-12-00	515.69	515.687
Δ@ 1	BS 9				
97-35-50			91-38-06	552.00	551.776
5¼ 195-11-12	97-35-36				
Δ@ 9	BS 8				
134-04-18					
(1) 268-08-18	134-04-09				
Δ@ 10	BS N¼				
146-35-50			85-27-24	619.63	617.583
(8) 293-11-28	146-35-44		90-26-06	2423.78	2423.71


SAND
LAKE
1/2 RISE
15E
1" PIN
2.95
MC
TIES
1½" NP S 60 W 16.42
3" NA N 60 W 17.87
6" NA S 80 E 20.38
N 1/4 COR
10
8
9
7
NE COR
SEC
CIM.
6
1
5 1/4
T@8 8S 7
57-54-33
115-49-12
57-54-36
10

HIWE

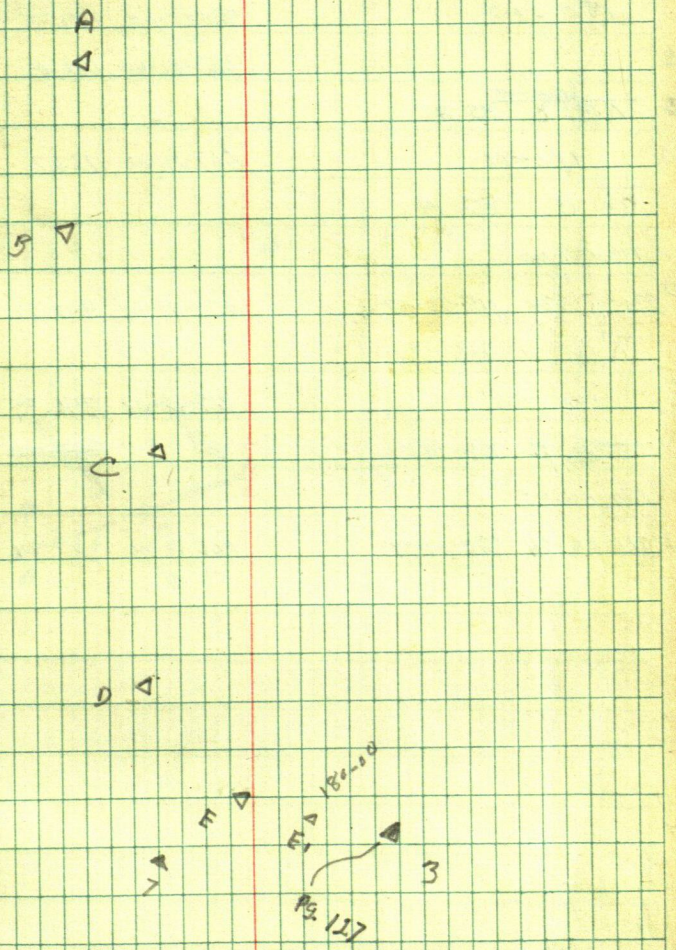
	Λ@ 9 BS 4				
	203-52-42				
(11)	407-45-24	203-52-42			
	Λ@ 11 BS 12				
	148-01-44			86-15-32	253.26	252.72
(11)	296-03-40	148-01-50		265-13-42	145.52	145.016
	Λ@ 12 BS 13				
	138-31-42				
	277-03-06	138-31-33			
	Λ@ 13 BS 12				
	140-52-12			91-01-42	221.06	221.024
(7)	281-44-04	140-52-02		268-33-30	499.80	499.647
	Λ@ 7 BS 13				
	163-37-02				
	327-13-30	163-36-45			

SEE PAGE 125



Henry Howe

	A @ A BS 3				
	39-47-02		90-04-36	1685.97	1685.969
B.	79-33-50	39-46-55	269-31-12	215.88	215.872
	A @ B BS A				
	138-50-14				
C.	277-40-06	138-50-03	269-56-46	308.79	308.79
	A @ C BS B				
	192-15-32				
D	384-31-00	192-15-30	268-42-38	380.53	380.525
	A @ D BS C				
	190-05-12				
E	380-10-26	190-05-13	270-02-00	362.91	362.91
	A @ E BS D				
	125-22-32				
3.	250-44-56	125-22-25	270-04-12	599.25	597.25
E1	180-00		269-23-06	131.39	131.382
	A @ 3 BS 7				
	51-31-18				
	103-02-26	51-31-13			
	A @ 3 BS E				
4	33-40-30				
A	67-20-54	33-40-27			


A
B
C
D
E
E1
Y
Y8'-0"
3
Pg. 117

HOWD

T @ 12 BS 13

A 93-51-18

T @ A-BS-12

180-0.0 90-37-22 189.35 189.338

B 267-07-08 142.01 141.83

~~C~~ T @ ~~B~~ BS A

C 180-00 267-24-06 117.27 117.149

T @ C BS A

115-54-00

D 231-47-34 115-53-47 274-27-30 442.21 440.872

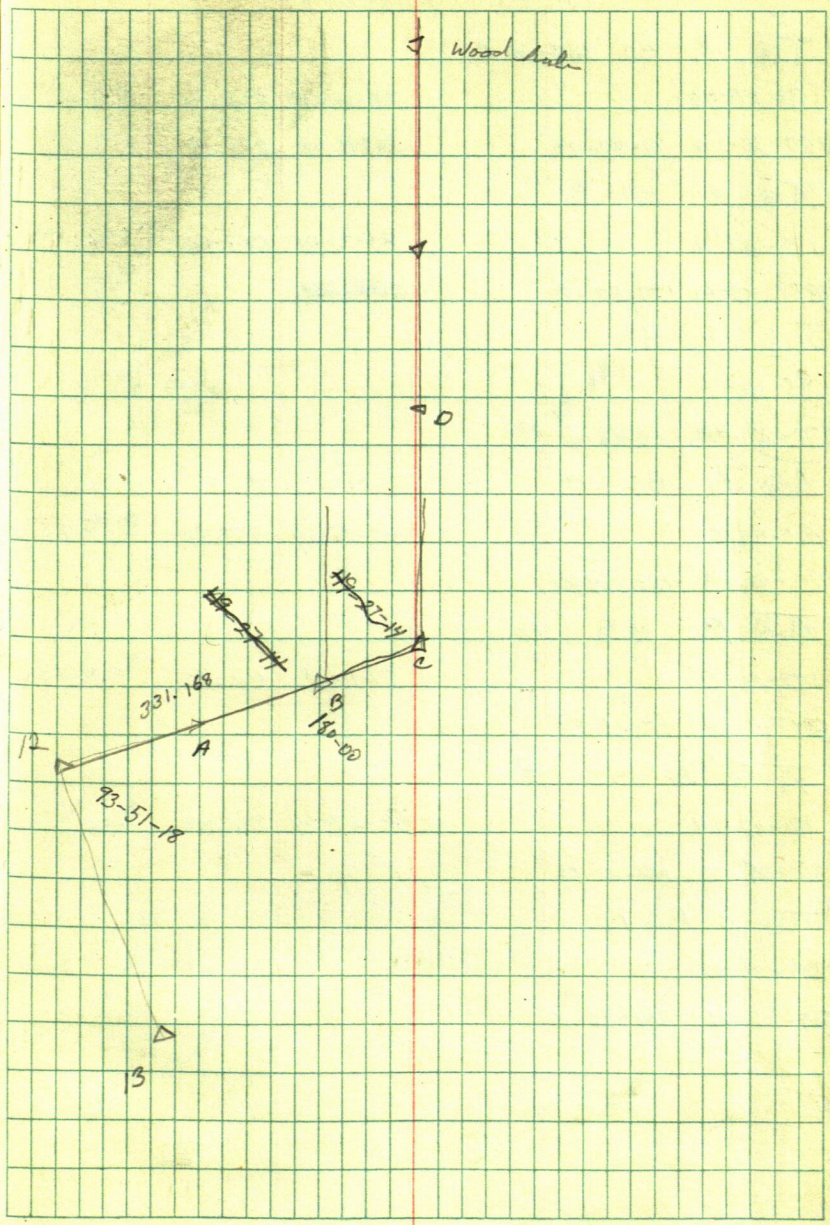
T @ D BS C

180-00 362-45-03 346.84 346.837

~~T @ E BS D~~ ~~327.34~~

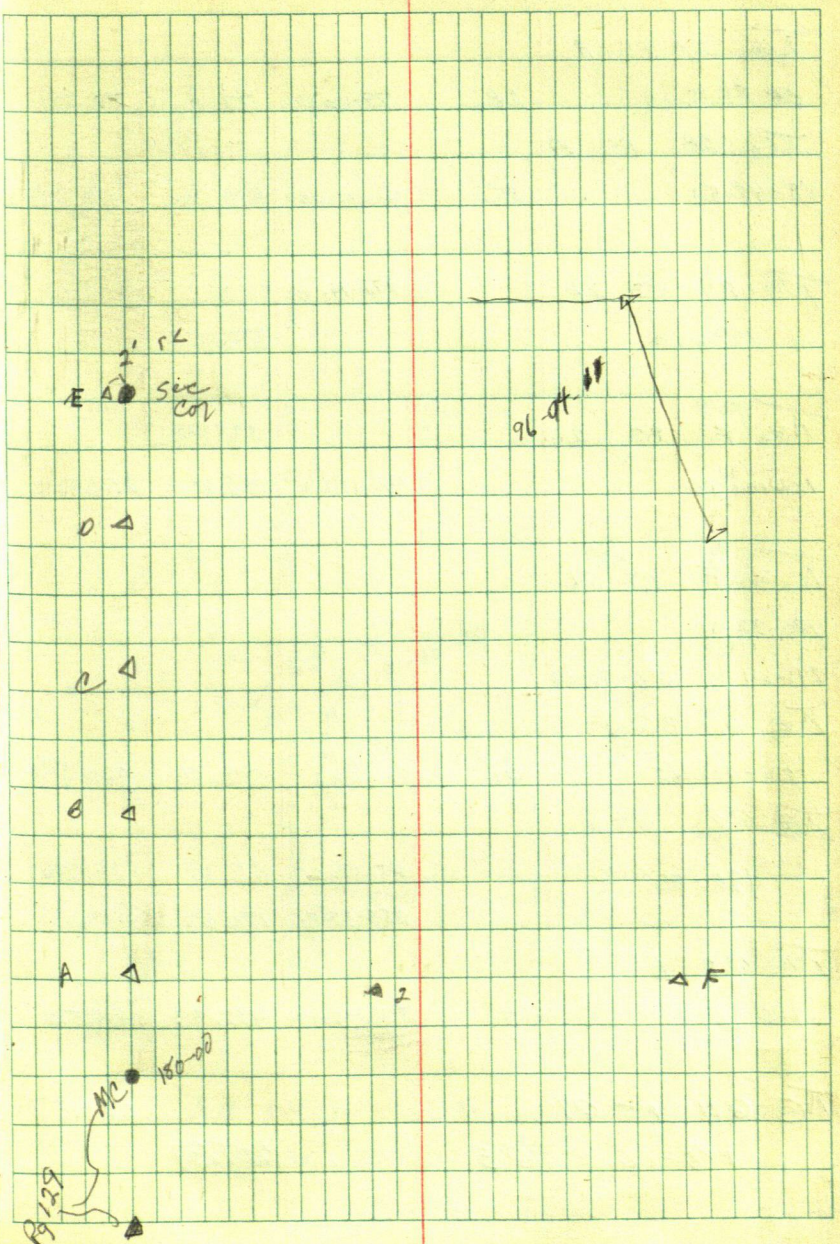
180-04-42

F 360-08-54 180-04-27 266-13-06 327.34 326.627

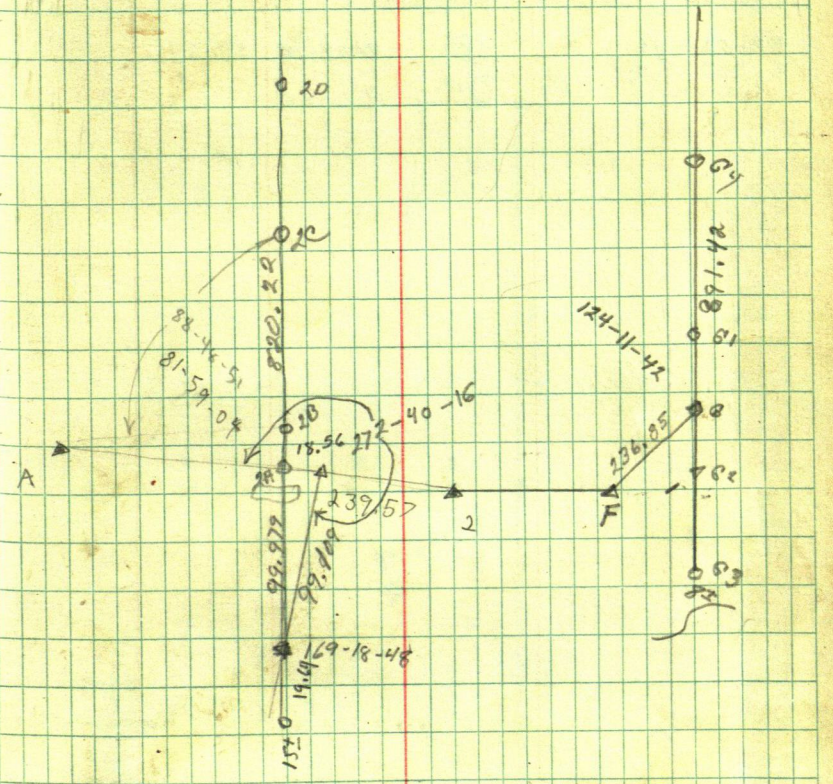

Wood Mark
D
C
B
A
331.168
180.00
93-51-18
B

Harold Splitstosser

Λ@ A	BS ~~1~~ 2				
79-37-40			88-23-42	843.46	843.129
(MC) 159-15-04	79-37-32		267-36-48	220.08	219.889
Λ@ A	BS B.				
179-53-10			85-35-42	694.45	692.399
(MC) 359-45-46	179-52-53		~~85-35-42~~		
Λ@ 2	BS 1				
85-06-12					
(A) 170-12-42	85-06-21				
Λ@ B	BS C				
180-54-06			90-18-24	577.51	577.502
(B) 361-48-02	180-54-01				
Λ@ C	BS D				
179-22-30			87-11-18	410.62	410.126
(B) 358-44-48	179-22-24				
Λ@ D	BS E				
180-03-04		694 220 578 499 410 1902	90-27-54	256.48	256.472
(C) 360-05-45	180-02-53				
Λ@ 2	BS 1				
304-36-18					
(A) 609-12-26	304-36-13				


1' SL
sic
Cor
E
D
C
B
A
96 ft
F
2
MC
150-00
Pg 129
1

Δ@ 2A BS A					
81-59-04		2B.	79-06-00	73.11	71.791
Δ@ 2B BS A					
88-48-51		2C	90-A-38	418.18	418.173
					489.964
Δ@ 2C BS 2B			272-19-00	331.80	330.256
180-00				330.256	
				330.256	
Δ@ F BS 2				331.528	
106-01-06			91-59-42	259.72	259.562
Δ@ F BS 1					
120-32-00					
② 241-04-06	120-32-00				
Δ@ G BS F					
124-11-42		G1	90-46-56	250.55	250.326
Δ@ G2 BS G					
180-00			85-36-20	66.14	65.946
G3			253-52-36	170.87	164.149
Δ@ G1 BS G					
180-00		G4	277-16-44	422.93	419.521
					222.12
Δ@ G4 BS G1					221.37
180-00		G5		221.37	.75
				224.37	



@ 2A BS A ∠ to Trailer house

NW Cor 349-02-42 40.70

NE Cor 213-01-54 14.15

MARK BERGERUDE

T @ V4 bS SEC Cor

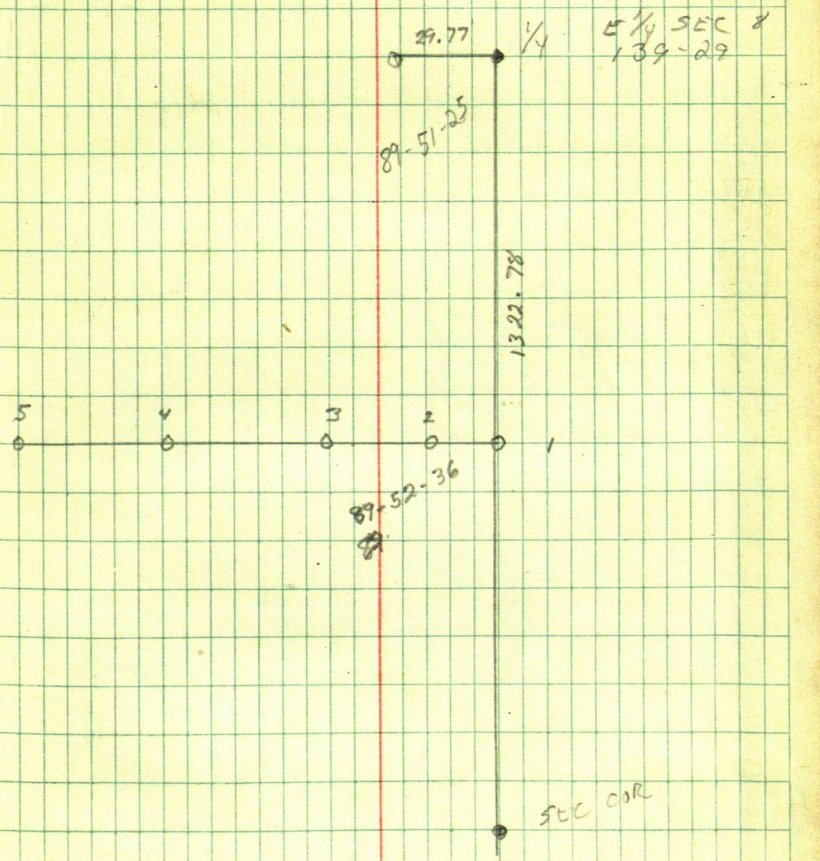
89-59-12 2645.56

T @ 1 BS Section

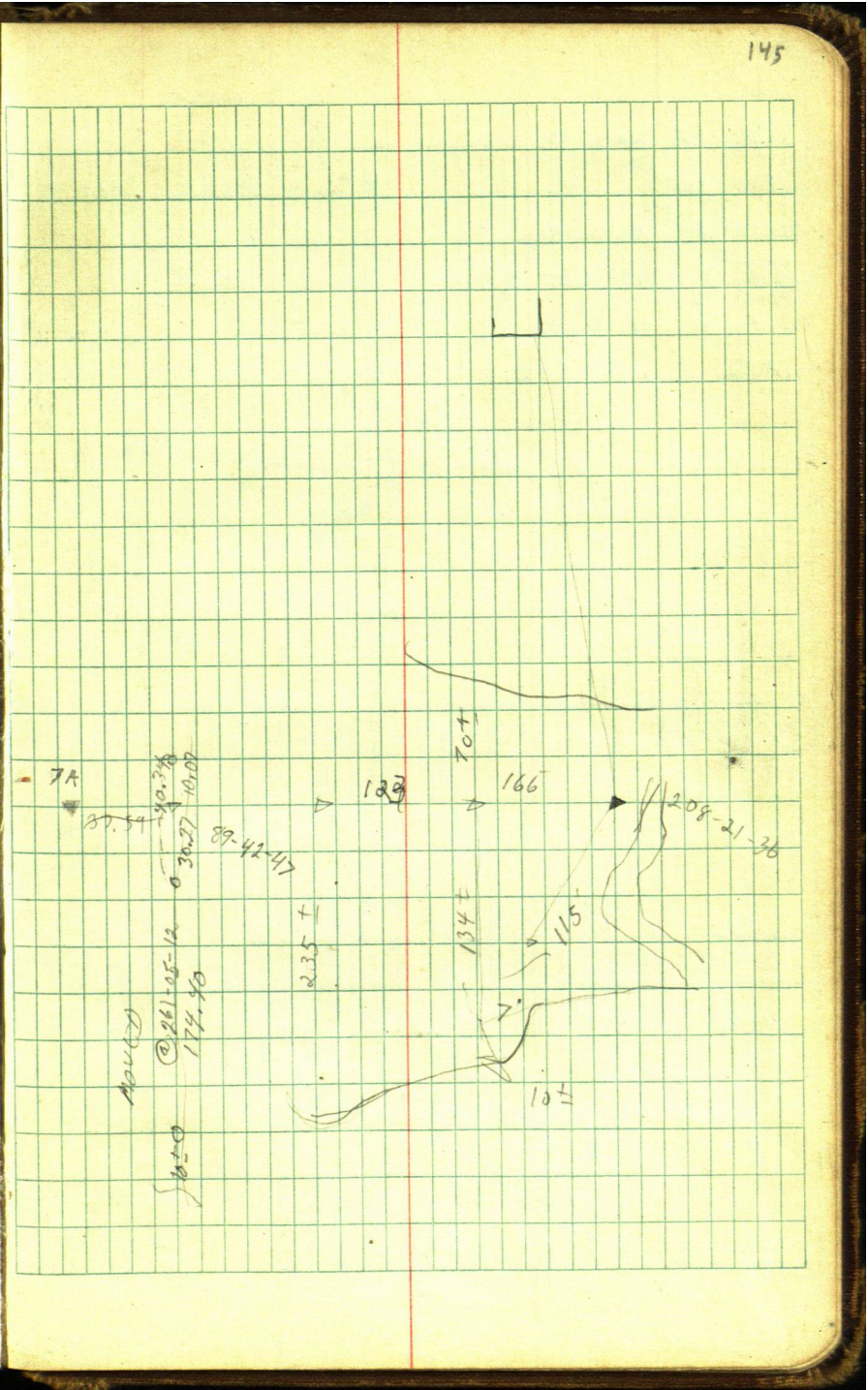
89-52-36 ⑤ 9104-18 591.24

② Chained

1338.72
1322.78
15.94



Howe

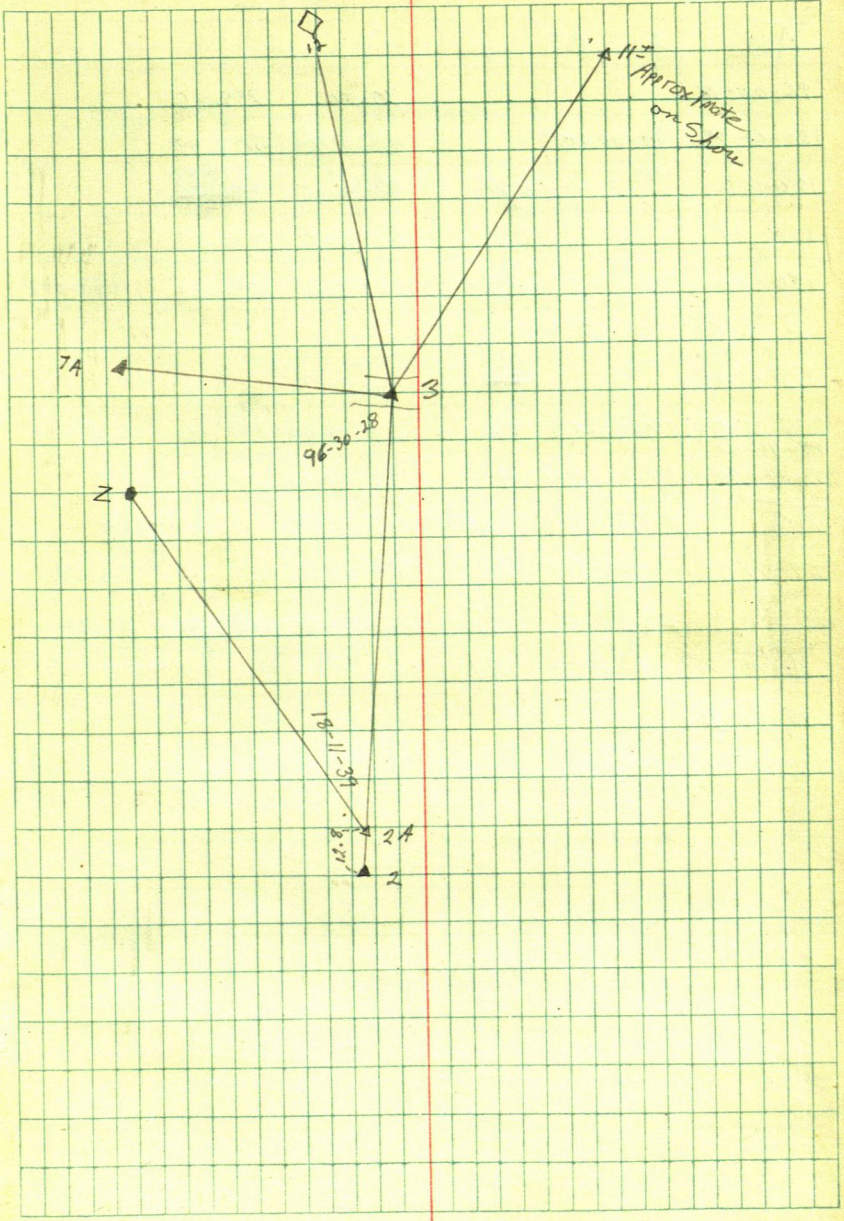

7A
87-54
40-34
30-27
11-00
89-42-47
123
70±
166
208-21-36
235±
134±
115
7'
10±
Above
@ 261-05-12
174-40
Below

Howe

T@ 2A	BS Z				
18-11-36			90-50-42	1553.66	1553.491
36-23-18	18-11-39				
T@ 3	BS 2A				
96-30-42					
193-00-56	96-30-28				
T@ 3	BS 12				

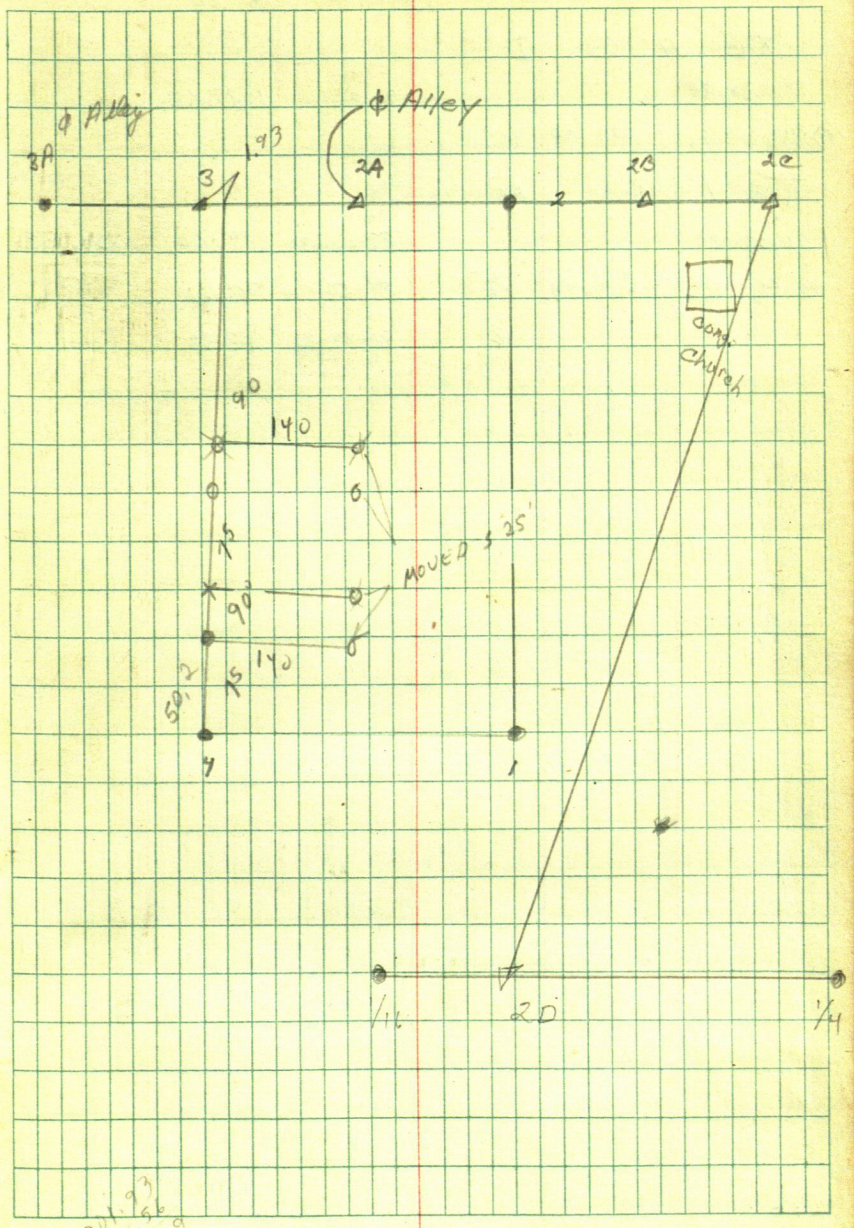
(2)

(11)


14
11" Approximate on Shore
7A
B
96°-30'-38"
Z
18°-11'-39"
2A
Z

Spartz

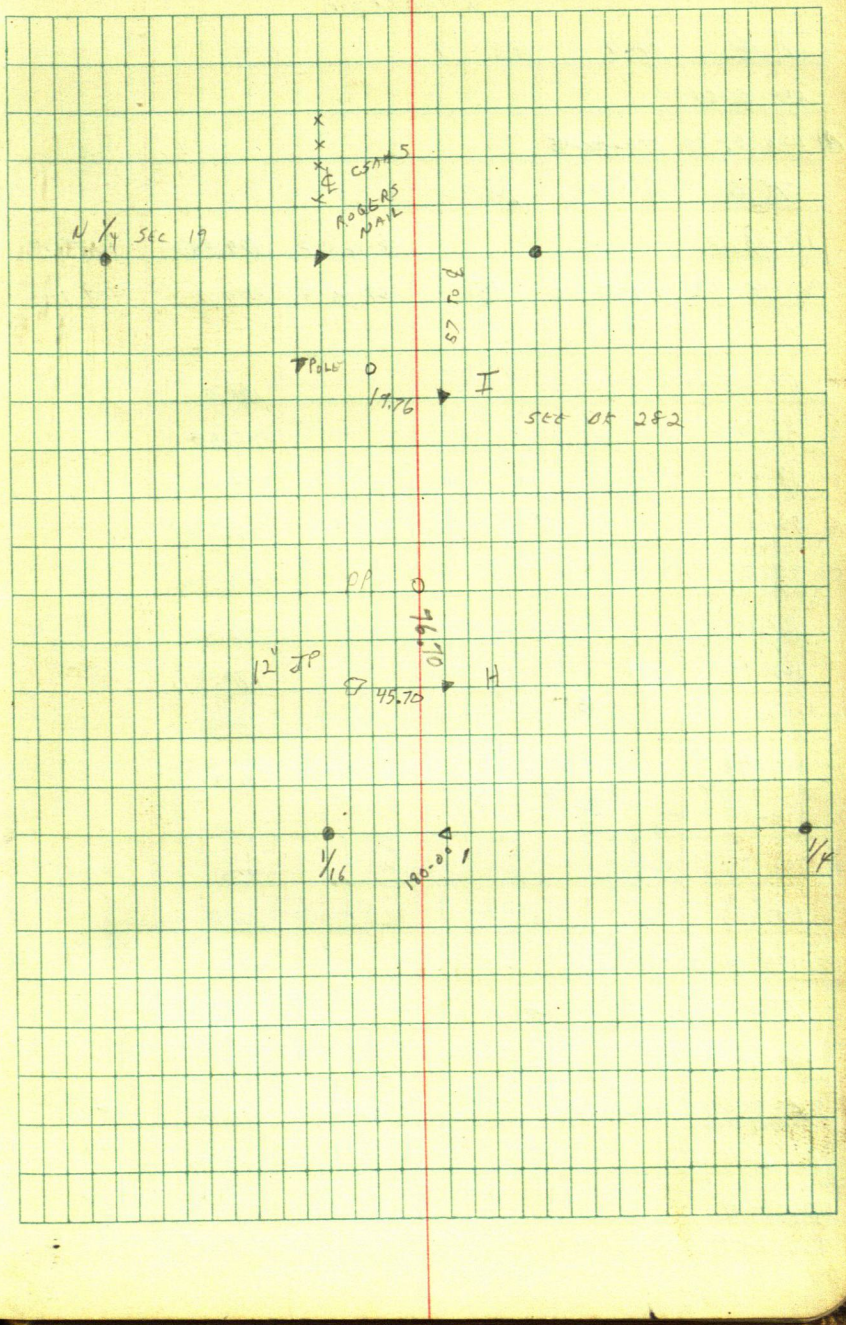
∠@	2 BS	1			
90-00-18			90-00	299.55	
180-00-36	90-00-19		90-04-42	301.93	
180-00		2A	90-34-12	149.84 ~~301.93~~	
180-00		2B	270-13-12	370.29	370,287
180-00		2C	269-52-00	640.05	640.048
∠@ 3	BS 2				
179-48-08		~~3A~~			
359-35-54 89-41-42	179-47-57	3A	270-19-44	238.56	238.556
179-23-28	89-41-44	4	90-08-54	299.77	299.77
∠@	2D BS	2C	∠ to ¼	Dist to ¼	
67-57-12		2C	89-17-00	396.61	396.579
135-54-18	67-57-09	¼	89-49-42	135.95	135.949
∠@ 2C	BS	2D			
79-51-16					
159-42-20	79-51-10				



301.93
238.56
540.49

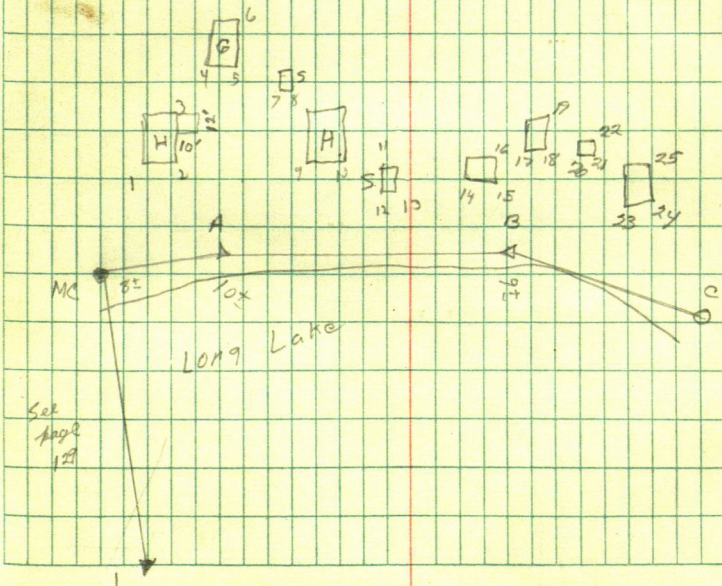
HACK SEC 19 T40-30

T@ 4	BS	I			
179-38-48			90-03-12	1837.63	
① 359-17-12	179-38-36				
T@ 1	BS	4			
90-29-30			89-00-30	747.50	747.388
180-58-48	90-29-24	1/4	86-50-00	966.61	966.41
		1/16	90-33-36	352.59	352.573


CSM 5
ROGERS NAIL
N 1/4 SEC 19
57 rod
POLE
19.76
I
SEC OF 282
PP
12" TP
45.70
H
1/16
190.0
1/4

Willkerson

A @	MC	BS			
259-28-54					
(A) 360 158-57-30	259-28-45				
A @	A · BS	MC			
191-25-12			90-16-32	124.54	124.538
382-50-12	191-25-06	(B)	269-46-34	304.11	304.108
1 68-23-20				156.0	
2 75-01				142.55	
3 81-49				174.01	
4 90-27				262.77	
5 95-56				256.63	
6 97-18				296.42	
7 100-10				170.6	
8 104-11	15# long			169.0	
9 104-41				114.0	
10 114-44	32# long			114.0	
11 156-53				72.0	
12 172-06				64.0	
13 174-54				75.0	
A @ B	BS	2 A			
188-19-30					
376-38-38	188-19-17	@	270-43-32	164.15	164.137
14. 6-16-86				189.89	
15. 07-49				146.93	
16. 16-07				151.48	


6
G
4
5
3
H
10'
12'
1
2
5
7
8
H
9
11
S
12
13
19
16
17
18
22
21
25
14
15
23
24
A
B
C
MC
8±
10±
Long Lake
Set Angle 12°
1

17.	42-02 ~~49-09~~	134.23
18.	49-09 ~~57-41~~	116.24
19.	57-41 ~~58-48~~	136.75
20.	58-48 ~~63-39~~	148.06
21.	63-39 ~~66-11~~	140.84
22.	66-11	153.70
23.	68-30	74.88
24.	83-25	66.84
25.	88-15	96.88

GIM GARARD

Λ @ Σ BS H			SEE BK 282/118-121		
103-39-12					
207-18	103-39		90-15-18	1788.00	1787.982
Λ @ G1 BS G2					
147-43-32					
295-26-48	147-43-24				
Λ @ G2 BS G1					
159-57-18			90-13-12	1172.28	1172.271
319-54-34	159-57-17	4	269-28-00	749.34	749.308
342-47-38					
683-35-18	342-47-39	G 3	90-42-12	616.76	616.714
60-31-36					
121-02-54	60-31-27	G 4	270-48-14	791.22	791.147
Λ @ G4 BS G2					
172-55-36					
345-51-20	172-55-40	G5			
Λ @ G5 BS G4					
125-51-36			89-33-08	1486.78	1486.734
251-43-04	125-51-32	W# 4	270-09-06	1551.88	1551.874
196-23-50					
392-47-30	196-23-45	G 6	90-03-04	2074.14	2074.14
Λ @ G6 08 G7					
112-18-00			87-53-12	666.55	666.097
224-35-52	112-17-56				
Λ @ G7 BS G6					
165-18-56					
330-37-54	165-18-57				
Λ @ G8 BS G7			90-16-06	556.61	556.604
158-40-20					
317-20-30	158-40-15		89-21-42	508.07	508.039

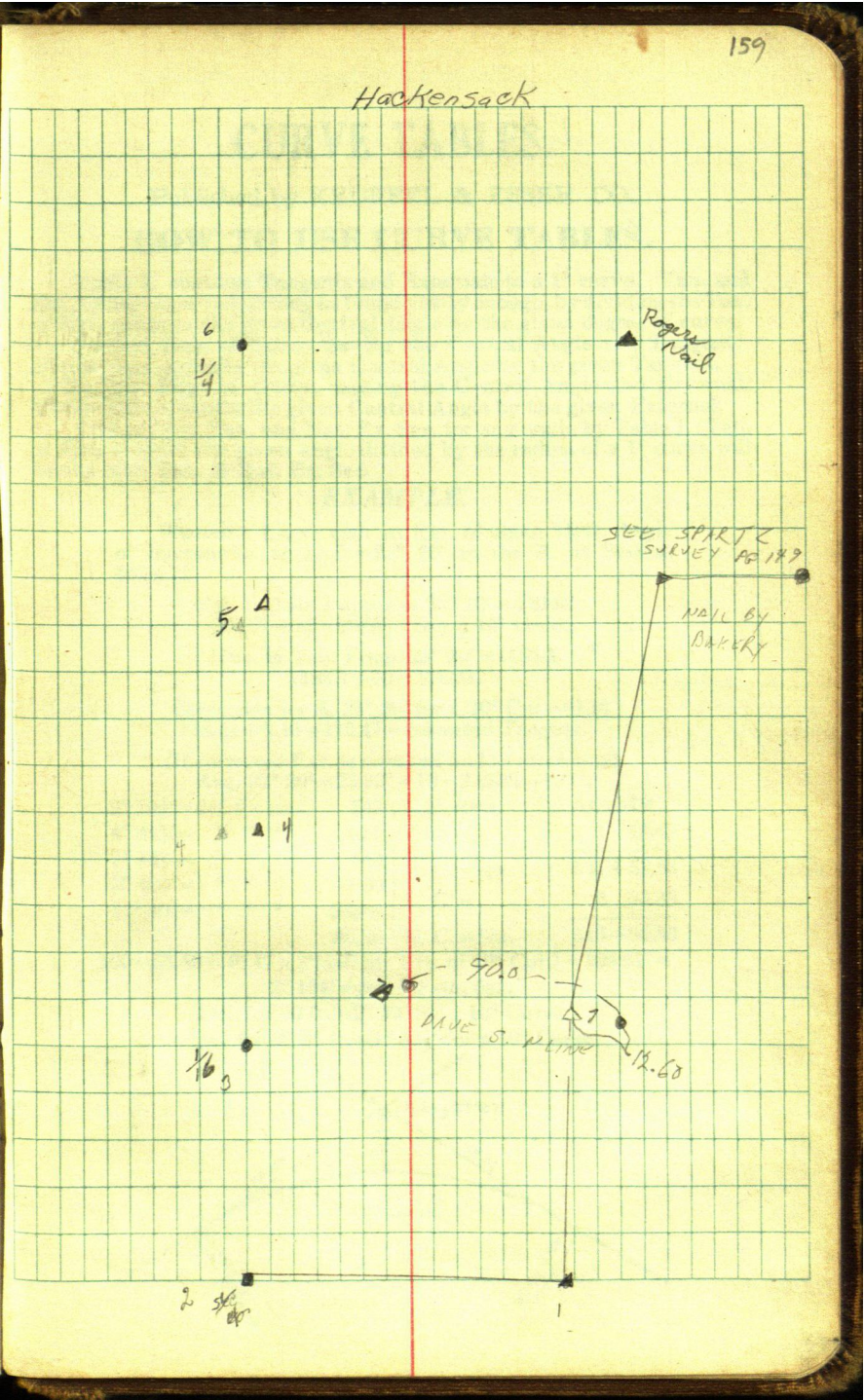
616.76
749.34
1366.10

157

Don Jensen

Λ @ 2 BS 3					
95-41-30					
191-22-46	95-41-23				
Λ @ 3 BS 2					
180-03-08		(2)	89-47-08	1334.02	1334.011
360-06-06	180-03-03	(4)	269-57-34	1332.78	
Λ @ 4 BS 5					
166-14-06					
332-28-14	166-14-07				
Λ @ 5 BS 4					
156-20-50		(4)	90-07-54	1125.92	1125.917
312-41-20	156-20-40	(6)	270-29-40	1581.58	1581.521
Λ @ 6 BS Rogers nail					
79-16-48					
158-33-28	79-16-44				
Λ @ 1 BS 2					
(1) 70-30-48					
141-01-06	70-30-33				
Λ @ 7 BS Nail By Bakery - NBB					
150-24-06		NBB	~~89-52-48~~ 89-52-48	1555.76	
300-47-50	150-23-55	~~B~~ B (1)	90-00	1849.38	
Λ @ NBB BS 2C from page 149					
93-45-00					
186-29-56	93-14-55				
(7A) Λ @ 7 BS NBB					
267-08-54					
534-18-02	267-09-01				

Hackensack


6
1/4
Rogers Nail
SEE SPARTZ SURVEY AS 179
NAIL BY BARKEY
5
4
90.0
MAKE S. WITNESS
12.68
1/16
3
2
1

60 5 52
4
54.54
50
10

1594

2676.10