

SECTION CORNER BOOK  
1997-

SECTION CORNER BOOK 1997-

MINING TRANSIT BOOK

82 0028



10-30-97

REMONUMENT SEC. COR #

2/1

11/12

T 12N

R 1E

STANDING  
OUT OF THE  
GROUND

FOUND OLD MONUMENT along

The SOUTH SIDE OF THE ROAD.

FOUND SEVERAL SMALL STONES IN THE

AREA COULD NOT FIND ORIGINAL

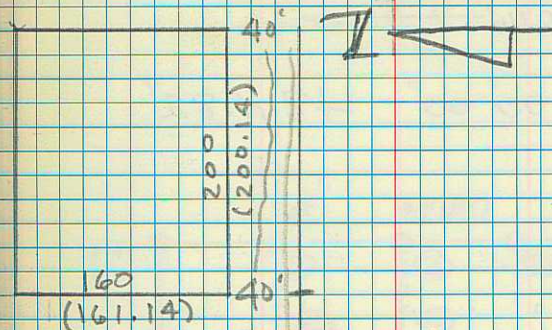
STONE. WE DID FIND A STONE 15x9x6

BUT IT HAD NO VISIBLE MARKINGS

USED HYDE PARK CITY RESERVOIR

PROPERTY TO REESTABLISH THIS

CORNER.



325.15

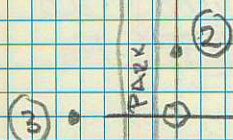
RP1 = 18'

RP2 = 13.3'

RP3 = 23.3'

RP'S ARE 5/8"

REBAR AND CAP  
WITH "T" BAR POST  
AT EACH POINT



RESET  
OLD CAP  
IN CONC.

4x4 POST 1' ± FROM  
CAP.



SEC. 9 & 16 T14N R1W  
EVEN-K.

STA HOR.  $\pm$  HOR DIST.

SEC. 16 T14N R1W  
W $\frac{1}{4}$  COR.

BS#1 0° 00' 00" 4811.82'

TC#10  
RR.

FS#2 S16

E $\frac{1}{4}$  COR 324 18 26 83 82.39

#3 S16

NE COR 306 37 03 72 65.01

#4

FENCE 307° 50' 46" 6718.03

#5 BK 285° 16' 34" 7027.28

#6 FENCE 284° 16' 14" 5995.11

#7 S9

NE COR 265° 19' 09" 7752.90

#8 NW

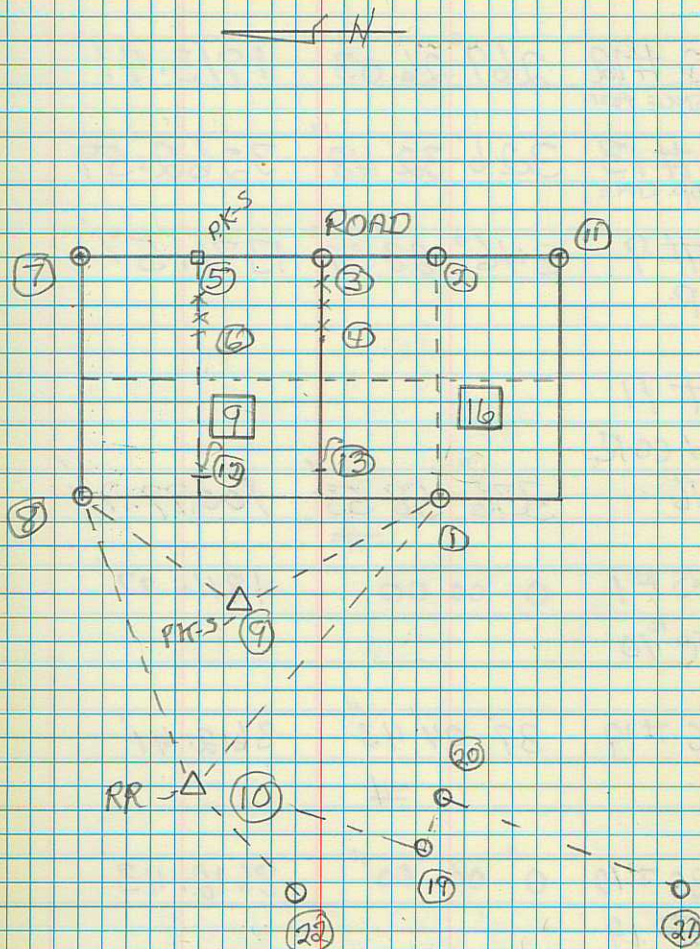
COR S-9 226° 20' 40" 3812.94

85° ±

EVEN-K

4

Jim & DAN.B. 22 JULY 1997





STA	HOR <del>✓</del>	HOR DIST
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FS #12 FENCE POST	269° 26' 03"	1913.41
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#13 CROP. LINE	326° 32' 48"	3262.59
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#9 C.P.	346° 28' 59"	1371.57
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#11

SW COR

S-16

336° 58' 53"	16099.78'
#	

BS #1	0 00 00	4811.77'
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T@ #10

FS #19	39° 04' 43"	8612.41'
	#	

BS #10	0° 00' 00"	8612.43'
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T@ 19

FS #23	187° 24' 14"	1781.72
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#	305° 12' 19"	1298.87
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#20	109° 14' 58"	74.73
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STA HOR.  $\angle$  HOR. DIST.

BS #19 0° 00' 00" 74.72'

ICP #20

FS #21 237° 22' 32" 9524.77'

#

BS #1 0° 00' 00" 4811.68

ICP #10

FS #22 49° 57' 33" 2123.04 1/4 COR

#

BS #21 0° 00' 00"

ICP #20

B # 160° 25' 55" 4008.01'

# 1° 49' 57" 6929.80



6-29-98

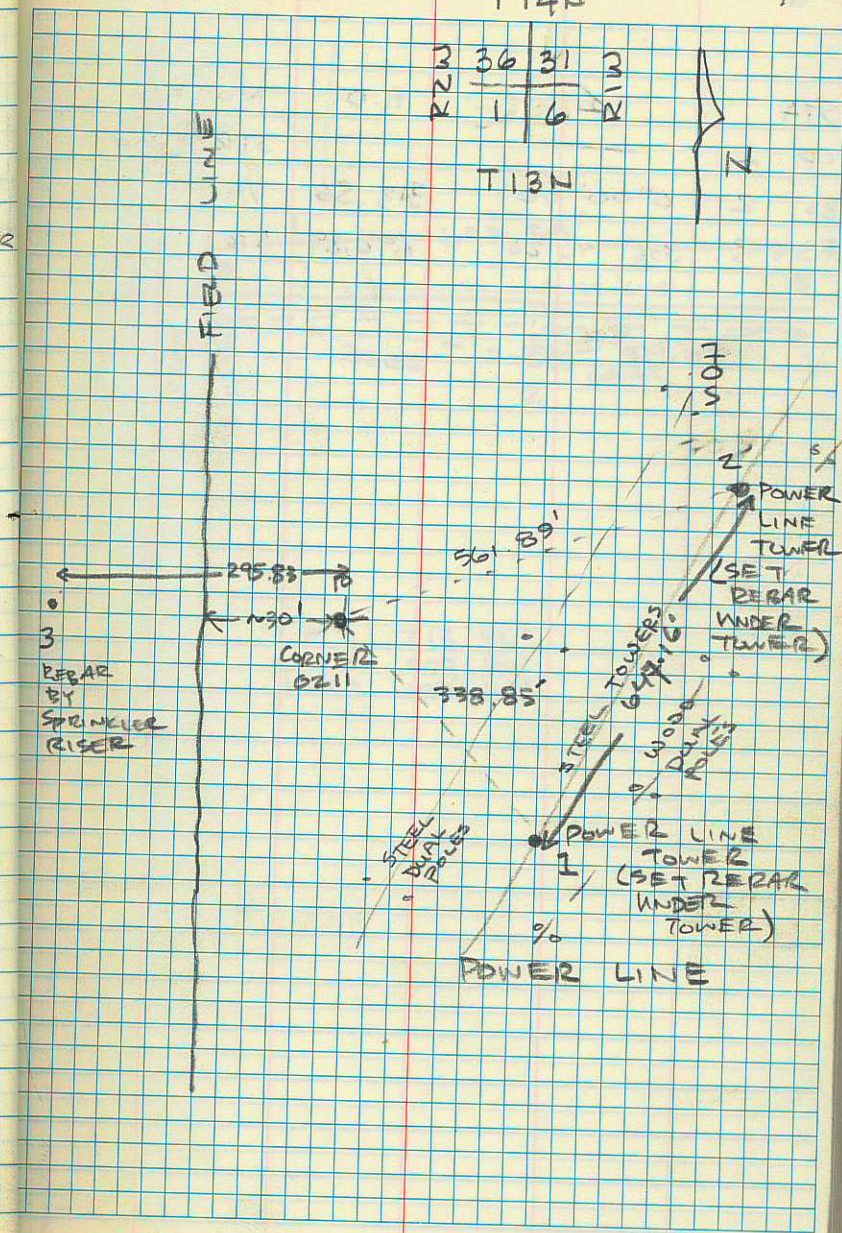
CORNER #  
0211

PW, JB,  
DW, JC

CP = 10

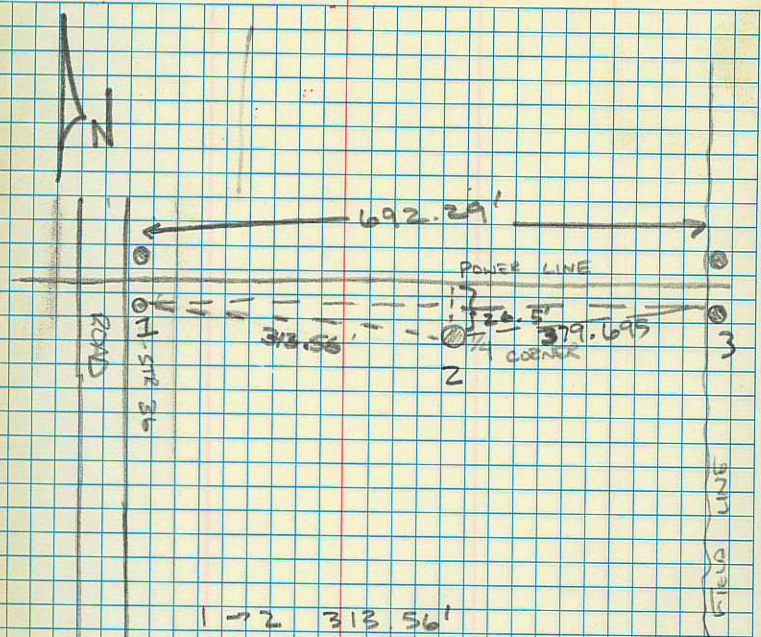
STA	ANGLE	H.D.	NOTES
BS 1	0° 00' 00"	338.85'	REBAR UNDER TOWER
FS 2	271° 45' 55"	561.89	TOWER
3	123° 26' 16"	295.83	REBAR BY RISER

FOUND





STA	$\Delta$	H.D.	NOTES
CP 1	—	—	STR # 36
BS 2	0°00'00"	313.56'	1/4 CORNER
FS 3	356° 40' 20"	692.29'	STR

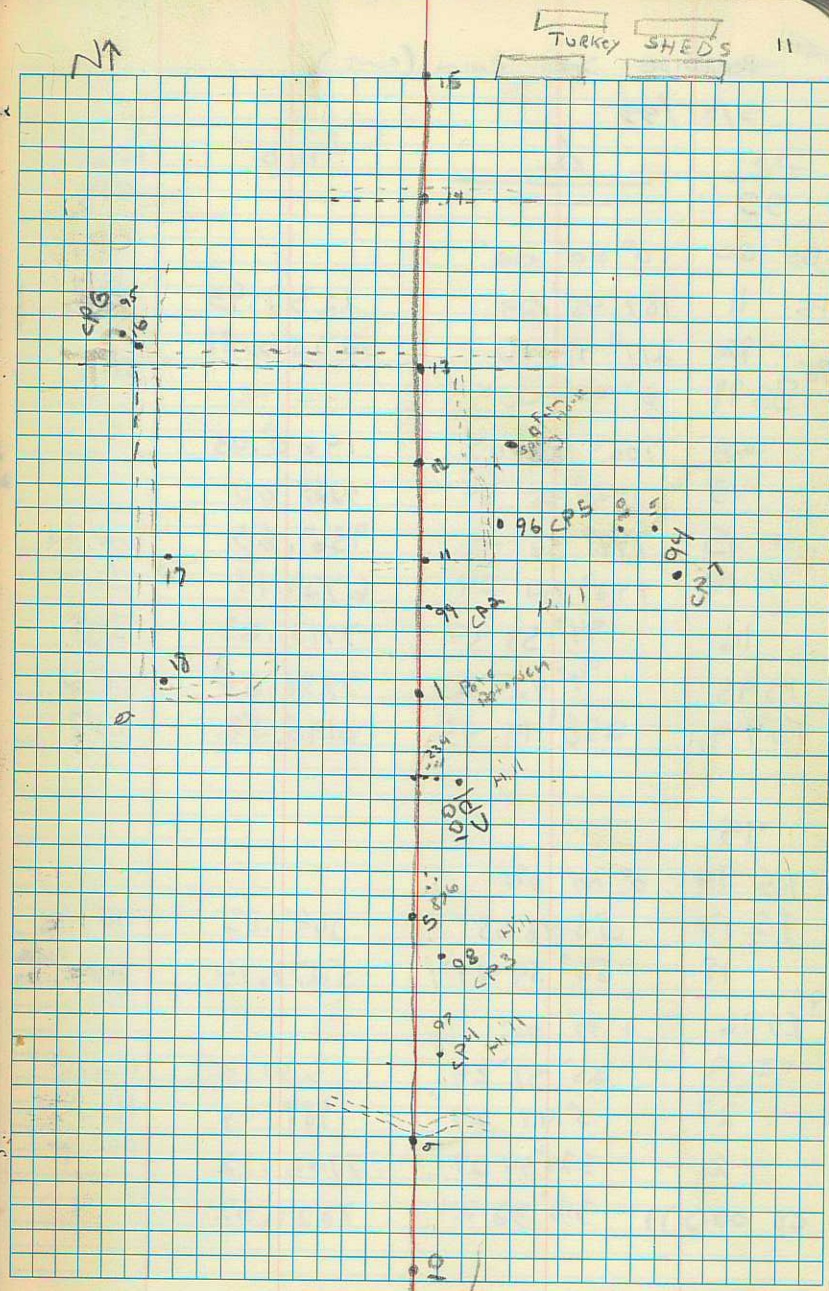


1	→	2	313.56'
2	→	3	379.70'
1	→	3	692.29'



PARADISE SECTION CORNER  
5/20/99 EC/DW

STA	$\angle$	H. D.	NOTES
100	—	—	CP1
BS 1	0° 00' 00"	1117.39	P. PETERSON CAP/FENCE WT.
2	8° 34' 56"	2975.64	CP 2
<del>2</del>	<del>8° 01' 57"</del>	<del>2232.80</del>	<del>23</del>
2	294° 07' 24"	307.50	P
3	292° 55' 27"	294.74	
4	293° 03' 03"	283.13	
5	206° 51' 50"	1848.35	+
98	192° 16' 12"	2318.30	CP3
98	—	—	CP <sub>3</sub>
BS 100	0° 00' 00"	—	CP <sub>1</sub>
FS 97	175° 11' 41"	1081.94	
6	351° 34' 30"	2137.87	PETERSON CAP
7	351° 36' 32"	2139.16	BOT BAR
8	352° 16' 23"	2157.17	WATSON (AG)
BS 97 98	0° 00' 00"	—	CP4
9	181° 36' 10"	854.18	27/26
10	171° 42' 18"	3451.19	27/26 31/35





PARADISE DEC. CORNER (CONT.)

5/21/99

STA	$\Delta$	H. D.	NOTES
99	—	—	CP <sub>2</sub>
BS 100	0° 00' 00"		CP <sub>1</sub>
FS 11	187° 45' 29	1232.93	$\frac{15}{22} \frac{14}{23}$
96-96	214° 18' 10	2956.81	CP <sub>5</sub>
BS 99	0° 00' 00"	—	
12	109° 28' 02	1960.43	
13	135° 05' 39	4225.44	
15	144° 52' 29	9369.53	Turkey shed
14	142° 04' 34	6729.14	stake
16	94° 38' 34	7713.63	Int corner
FS 95	94° 42' 23	7738.50	CP <sub>6</sub>
FS 94	258° 19' 43	6195.52	CP <sub>7</sub>
95			
BS 96	0° 00' 00"		
FS 17	58° 48' 33	2645.83	15   15
18	58° 54' 41	5277.14	FRONT $\frac{16}{21} \frac{15}{22}$
BS 96	0° 00' 00"		
FS 19	20° 37' 24	3330.27	Fences
20	3° 44' 27	487.78	Fence
21	326° 44' 27	7703.72	Post CAP
CP 100(22)1	318° 32' 24	7829.52	



Paradise Sec. corner

13

STA                  Δ                  H.D                  Notes

100

CP1

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~~153 06 05~~

~~341 16 22~~

1117.37

2

~~87 13 26~~

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~~86 05 18~~

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86 06 47

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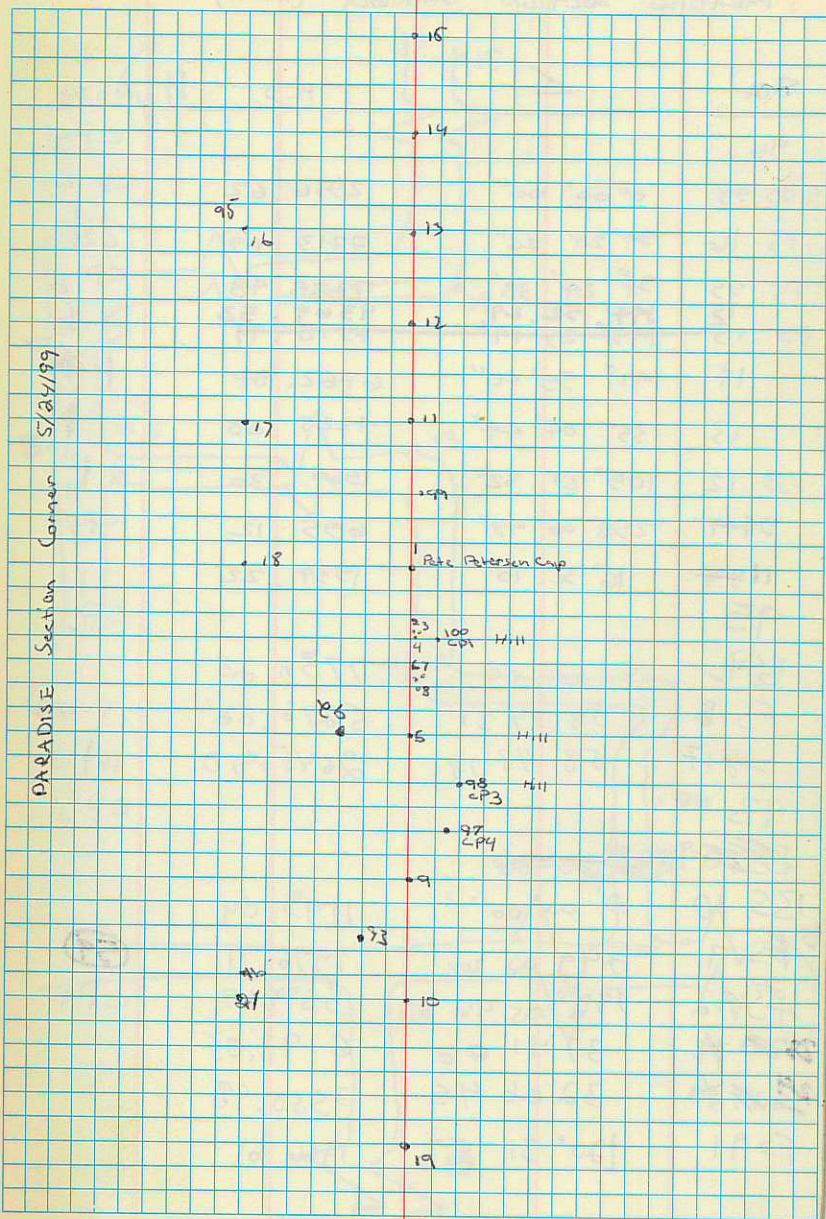


Paradise sec corner (CONT.) S/24/99

STA		H.D	notes
100			CP1
BS 1	0 00' 00"	1117.39	Pete Peterson
2	292 54' 17"	282.98	
3	292 56' 34"	274.67	
4	294 07' 12"	307.14	
5	206 51' 25"	1548.42	
FS 98	192 16' 10"	2318.23	CP3
FS 94	79 26 23	7829.31	CP7
FS 99	8 33 38	2475.67	CP2
98			
BS 100	0 00' 00"	2318.23	
FS 97	195 11 45	1081.99	CP4
6	351 32 03	2137.85	Pete
7	351 34 12	2139.05	Bott
8	352 14 05	2157.08	Hansen
<del>9</del>	<del>181 35 49</del>	<del>854.21</del>	
<del>10</del>	<del>188 17 48</del>	<del>3451.15</del>	
97			
BS 98	0 00' 00"		
9	181 35 49	854.21	27 f 26
10	188 17 48	3451.15	$\frac{27.26}{34.35}$

D49 10 2604.68

14









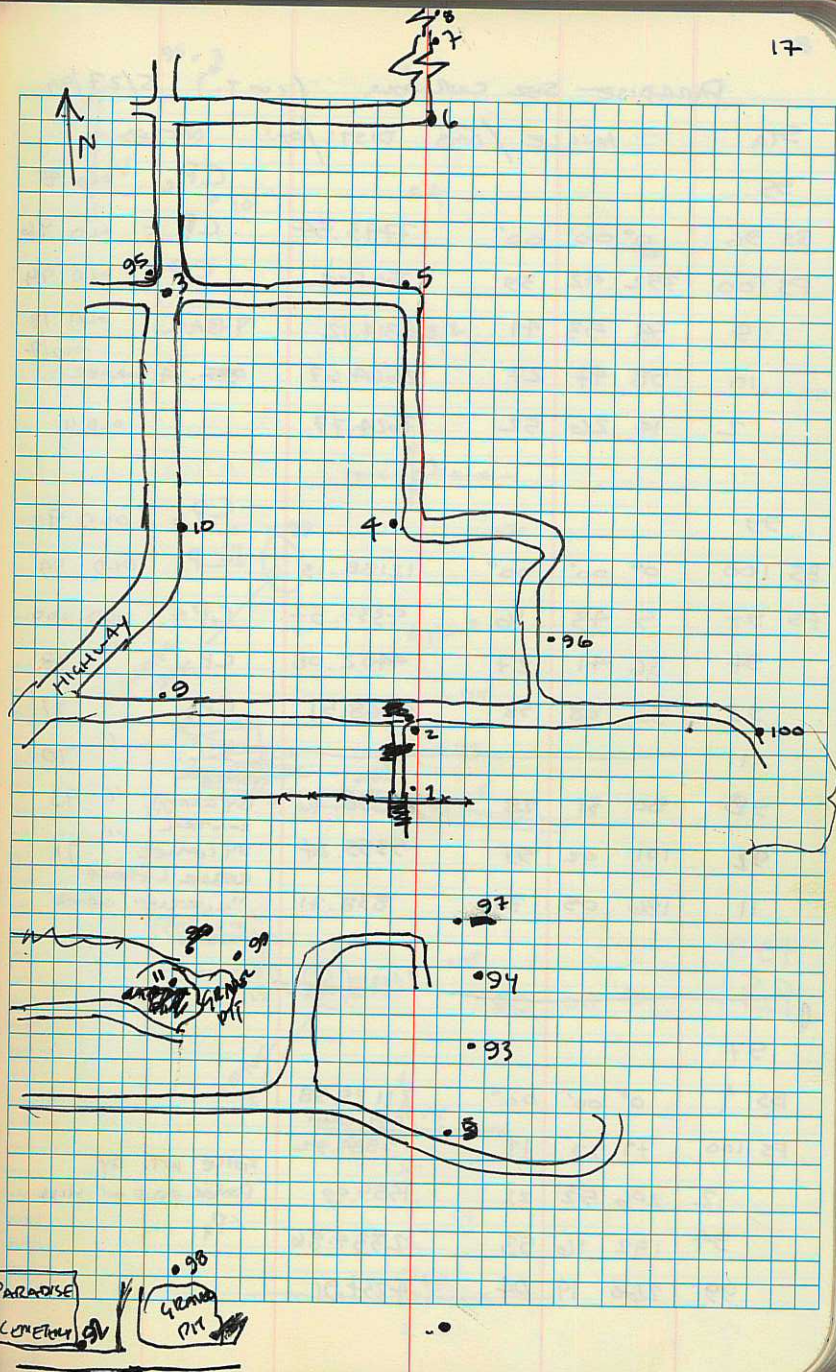
## PACAPUSE Sec. Corners (cont)

<u>STA</u>	<u>Z</u>	<u>H.D</u>	<u>Notes</u>
91			
BS 93	0 00 00		
25 27	97 00 37	320.10	Sec Cor
BS 10	21° 08 57	2730.16	(60)
<del>BS 9</del>			
92			
BS 93	0 00 00	5599.17	
FS 100	285° 11 49	4307.25	(81)
26 28	105° 33 52	832.74	



5/27/99 SECTION CORNERS N OF

EC / DW P	↑	PARADISE TION RIE	ANGLE / DMS	DIST. / FT.	NOTES
100					CP 1 OLD 94
BS 1		0° 00' 00"	7758.19		PETERSON CAP OLD 1
			<del>7704.0</del>		
FS #2		19° 49' 25"	7371.21		ESTIMATE OF SEC COR OLD 11
99		354 56 34	12189.48		CP <sub>2</sub> OLD 92
98		328 39 37	Too FAR		CP <sub>3</sub> OLD 93
97		351 47 47	7884.92		CP <sub>4</sub> OLD 100
3		42 18 13	Too FAR		INTE. IN ROAD OLD 16
96		33 14 29	6239.04		CP <sub>5</sub> OLD 96
96					CP <sub>5</sub> OLD 96
BS 100		0° 00' 00"			CP <sub>1</sub> OLD 94
FS 4		211 29 13	1975.60		OLD 12
5		237 04 53	4256.55		OLD 13
3		196 19 36	7769.05		OLD 16
95		196 23 35	7794.03		CP <sub>6</sub> OLD 95
96		244 00 57	6809.62		OLD 14
7		246 51 03	9436.90		OLD 15
8		248 35 30	11924.85		
2		118 33 24	1947.10		OLD 11
95					
BS 96					



PARADISE CEMETERY  
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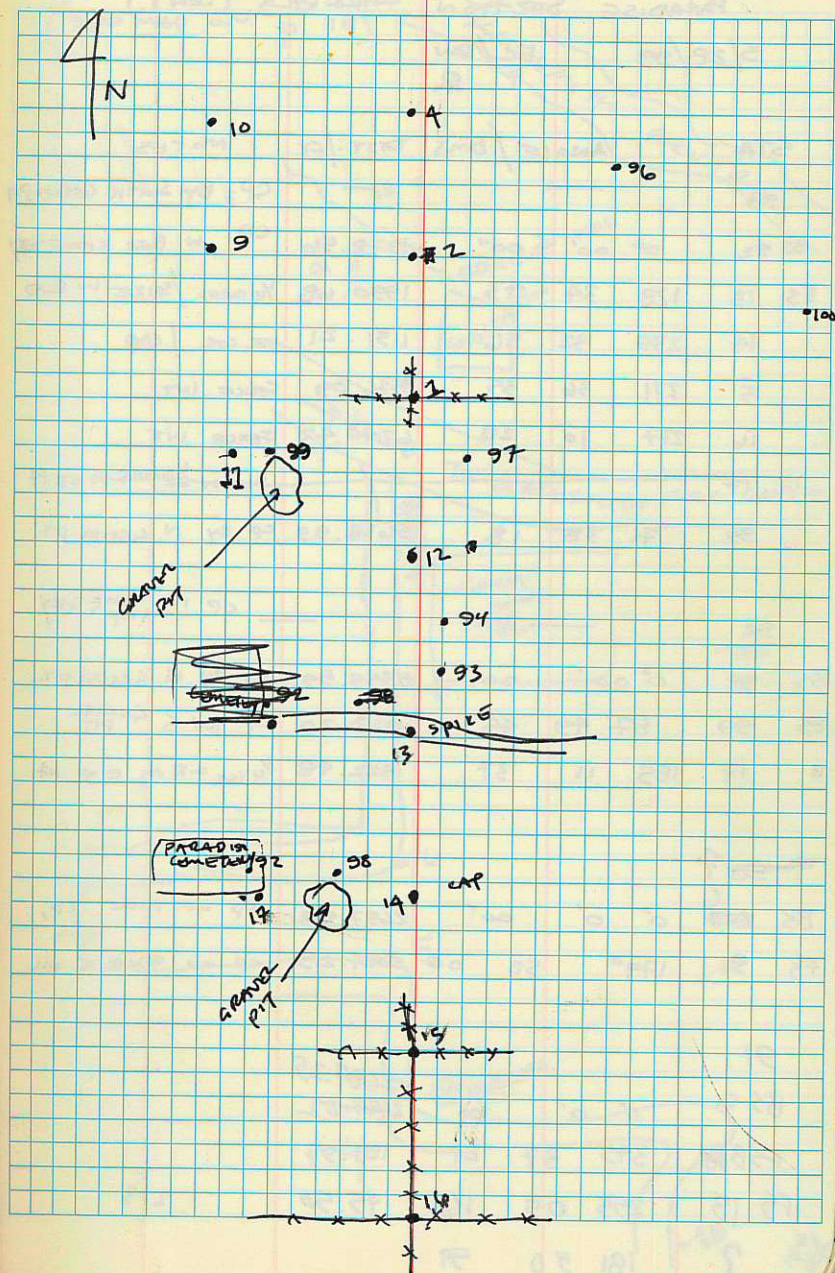
PARADISE SEE CORNERS (CONT.) 5/27/99

STA	ANGLE / DMS	DIST. / FT	NOTES
95			CP <sub>1</sub> OLD 95
BS 96	0° 00' 00"	7793.54	CP <sub>5</sub> OLD 96
FS 100	352 42 39	Too FAR	CP <sub>1</sub> OLD 94
9	58 53 41	5314.12	T-BAR OLD 18
10	58 47 27	2664.67	<del>CP</del> 1/4 CORNER OLD 17
2	14 26 52	7624.77	OLD 11
99			CP <sub>2</sub> OLD 92
BS 100	0° 00' 00"	12188.15	CP <sub>1</sub> OLD 94
FS 97	5 43 16	4337.57	CP <sub>4</sub> OLD 100
94	36 41 27	4402.08	CP <sub>2</sub> " 98
93	50 28 58	4568.51	CP <sub>3</sub> " 97
11			S.C. " 10
98	80 31 28	5638.76	CONTROL BY LEGAL BY CORNER " 93
92	101 02 59	5355.24	CONTROL BY CORNER " 91
11	186 05 30	838.71	REBAR LABELS "SECTION CORNER"
<del>100</del>			
BS 1	0° 00' 00"	1125.38	
97			
BS 1	0° 00' 00"	1125.38	
FS 100	79° 27' 11"	Dist. From Section = 7884.92	
12	206 52 21	1559.49	FENCE INT. BY ROWER POLE ON HILL
94	192 16 53	2334.86	CP <sub>2</sub>
99	268 19 04	4337.91	

95.3

5

18









TIE TO  $\frac{1}{4}$  COR SEC 14+13 TION  
6-3-99 COOL 50° RIE

FOUND STONE PLAINLY MARKED AND  
FIRMLY SET WITH CHRISTIANSEN CAP  
AT FENCE INTERSECTION.

T ON PT 96 BACK 5

BSS

FS 19  $83^{\circ}19'02''$  4137.57

6-4-99

$\frac{1}{4}$  COR

11

+

14

T ON PT 91 BACK 5

FS 20  $341^{\circ}21'28''$  8443.05

~~$\frac{1}{4}$~~

COR IN CANYON

2

+

11

COUNTY  
CAP

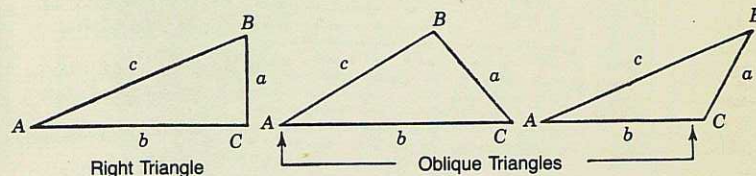
FS 21  $314^{\circ}18'24''$  3853.73



6	5	4	3	2	1
7	8	9	10	11	12
			15	14	13



## TRIGONOMETRIC FORMULÆ



### Solution of Right Triangles

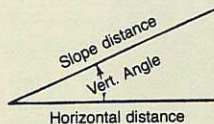
For Angle A.  $\sin = \frac{a}{c}$ ,  $\cos = \frac{b}{c}$ ,  $\tan = \frac{a}{b}$ ,  $\cot = \frac{b}{a}$ ,  $\sec = \frac{c}{b}$ ,  $\operatorname{cosec} = \frac{c}{a}$

Given	Required	Formulas
$a, b$	$A, B, c$	$\tan A = \frac{a}{b} = \cot B$ , $c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
$a, c$	$A, B, b$	$\sin A = \frac{a}{c} = \cos B$ , $b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
$A, a$	$B, b, c$	$B = 90^\circ - A$ , $b = a \cot A$ , $c = \frac{a}{\sin A}$
$A, b$	$B, a, c$	$B = 90^\circ - A$ , $a = b \tan A$ , $c = \frac{b}{\cos A}$
$A, c$	$B, a, b$	$B = 90^\circ - A$ , $a = c \sin A$ , $b = c \cos A$

### Solution of Oblique Triangles

Given	Required	Formulas
$A, B, a$	$b, c, C$	$b = \frac{a \sin B}{\sin A}$ , $C = 180^\circ - (A + B)$ , $c = \frac{a \sin C}{\sin A}$
$A, a, b$	$B, c, C$	$\sin B = \frac{b \sin A}{a}$ , $C = 180^\circ - (A + B)$ , $c = \frac{a \sin C}{\sin A}$
$a, b, C$	$A, B, c$	$A + B = 180^\circ - C$ , $\tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ , $c = \frac{a \sin C}{\sin A}$
$a, b, c$	$A, B, C$	$s = \frac{a + b + c}{2}$ , $\sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ , $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}$ , $C = 180^\circ - (A + B)$
$a, b, c$	Area	$s = \frac{a + b + c}{2}$ , $\text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
$A, b, c$	Area	$\text{area} = \frac{bc \sin A}{2}$
$A, B, C, a$	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

### REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle =  $5^\circ 10'$ . From Table, Page IX.  $\cos 5^\circ 10' = .9959$ . Horizontal distance =  $319.4 \times .9959 = 318.09$  ft.  
Horizontal distance also = Slope distance minus slope distance times  $(1 - \cos$  of vertical angle). With the same figures as in the preceding example, the following result is obtained.  $\cos 5^\circ 10' = .9959$ .  $1 - .9959 = .0041$ .  $319.4 \times .0041 = 1.31$ .  $319.4 - 1.31 = 318.09$  ft.

When the rise is known, the horizontal distance is approximately: - the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance =  $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$  ft.