

1998 #1



Keuffel & Esser Company

CACHE COUNTY
SURVEYOR

82 0020

Weatherproof Field Book

"Rite in the Rain"

ALL-WEATHER WRITING PAPER



"Rite in the Rain" - A unique All-Weather Writing Paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather.

"Rite in the Rain" All-Weather Paper
32 Leaves

4⁵/₈" X 7"

4-21-98

MONUMENT FOR SEC

PB WARD

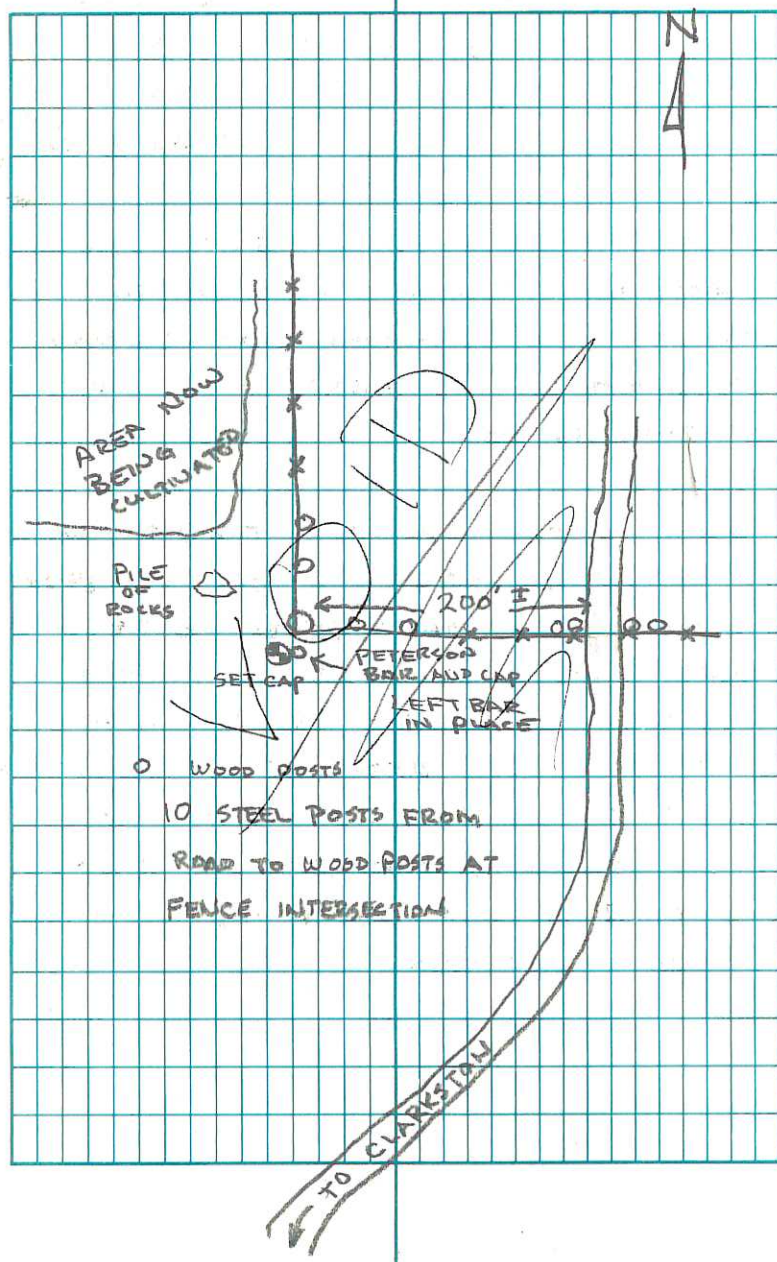
$\frac{1}{4}$

2+1

T14N R2W

USED INFORMATION FROM A SURVEY
MADE BY PETERSON LAND SURVEYING.
THERE IS NO INFORMATION ON THE GROUND
TO LOCATE THIS CORNER OTHER THEN THE
PETERSON SURVEY.

THIS CORNER IS ON THE SOUTHEASTERNLY
SLOPE OF A HILL. THE AREA HAS BEEN
FARMED BUT NOW APPEARS TO BE IN
THE LAND BANK. THERE IS A PILE
OF ROCKS 60' TO THE NORTHWEST
OF THE FENCE INTERSECTION BUT IT APPEARS
TO BE FROM THE FIELD TO THE NORTH
I DUG AROUND IN THE ROCK PILE BUT
FOUND NO MARKED STONES OR INDICATION
OF OLD FENCE POSTS



4-30-98

PBWARD

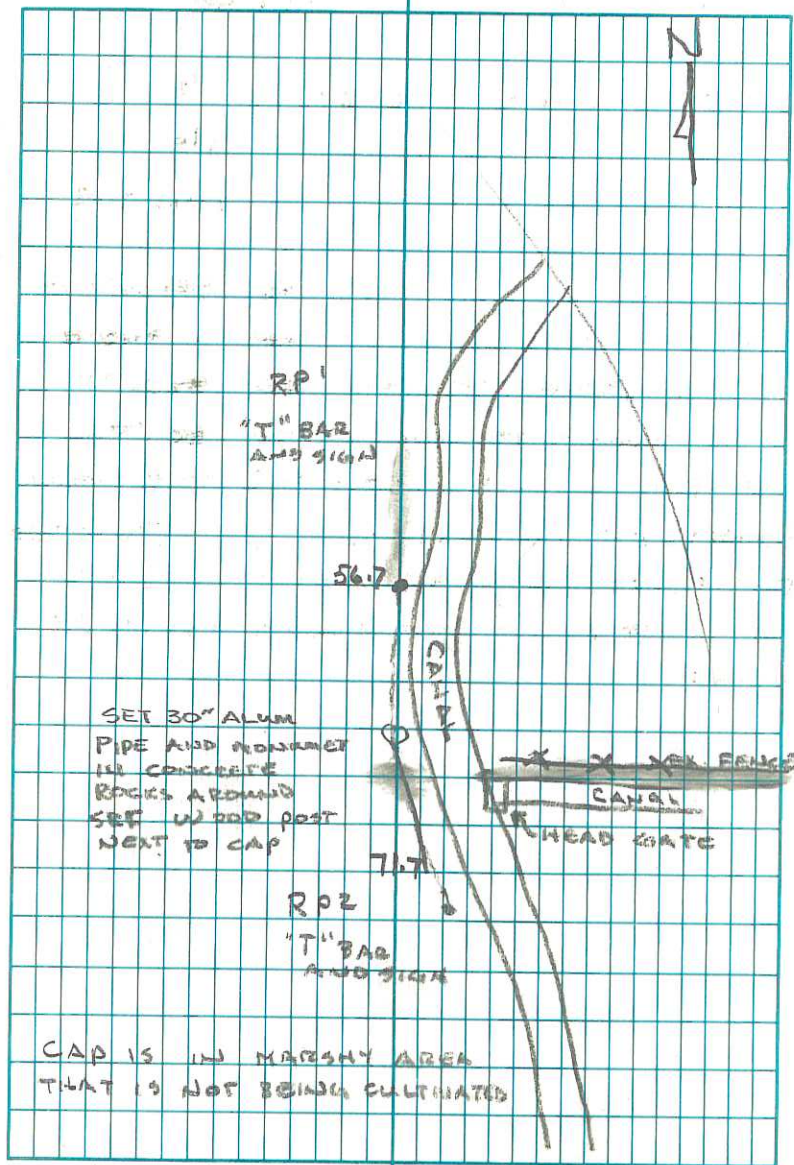
MONUMENT FOR SEC

$\frac{1}{4}$

$\frac{8}{9}$

T14N R1W

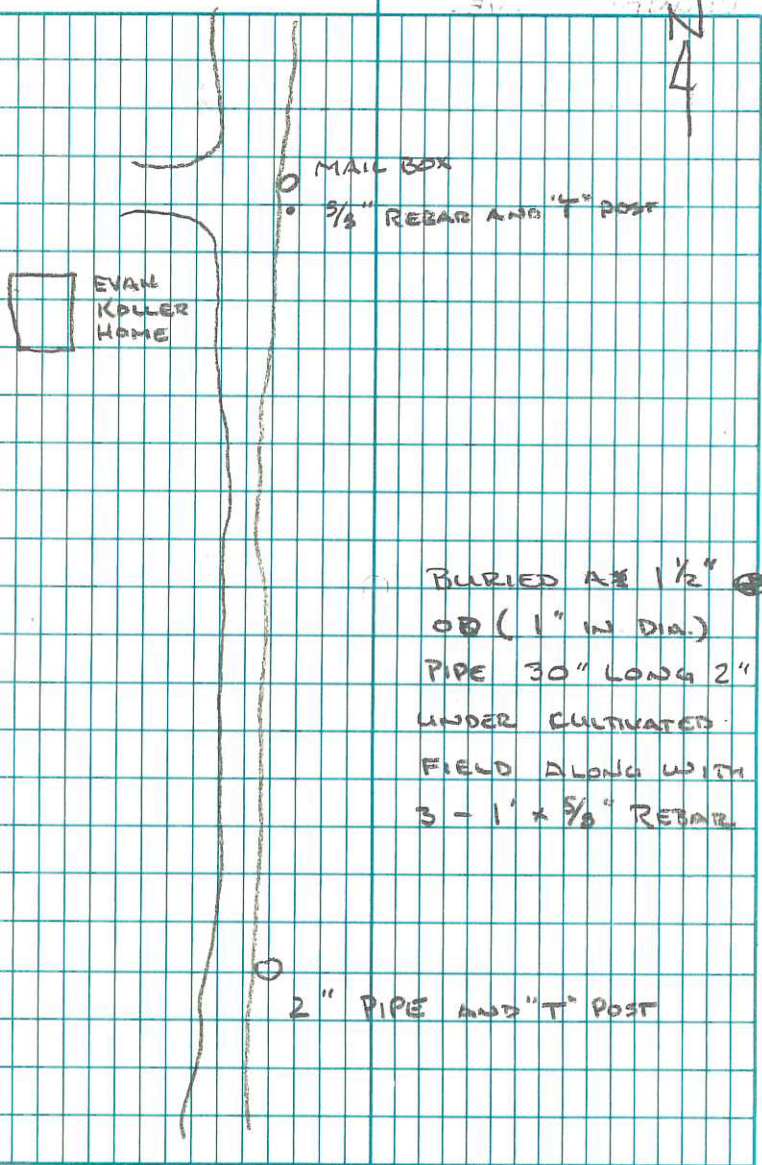
THIS SECTION CORNER WAS ESTABLISHED
USING INFO GATHERED FOR A SURVEY
OF A GRAVEL PIT THAT WAS SOLD BY
THE COUNTY TO EVAN KOLLER IN 1976.
WE RAN A LINE BETWEEN THE KNOWN
CORNERS OF $\frac{5}{8}$ AND $\frac{17}{16}$. THEN PROLONGED
THE FENCE LINES TO MEET THIS LINE.
NO EVIDENCE OF THE CORNER COULD BE
FOUND



30 APRIL 1998

MONUMENT TO COR

$\frac{8}{9}$
 $\frac{17}{16}$



8 MAY 1998

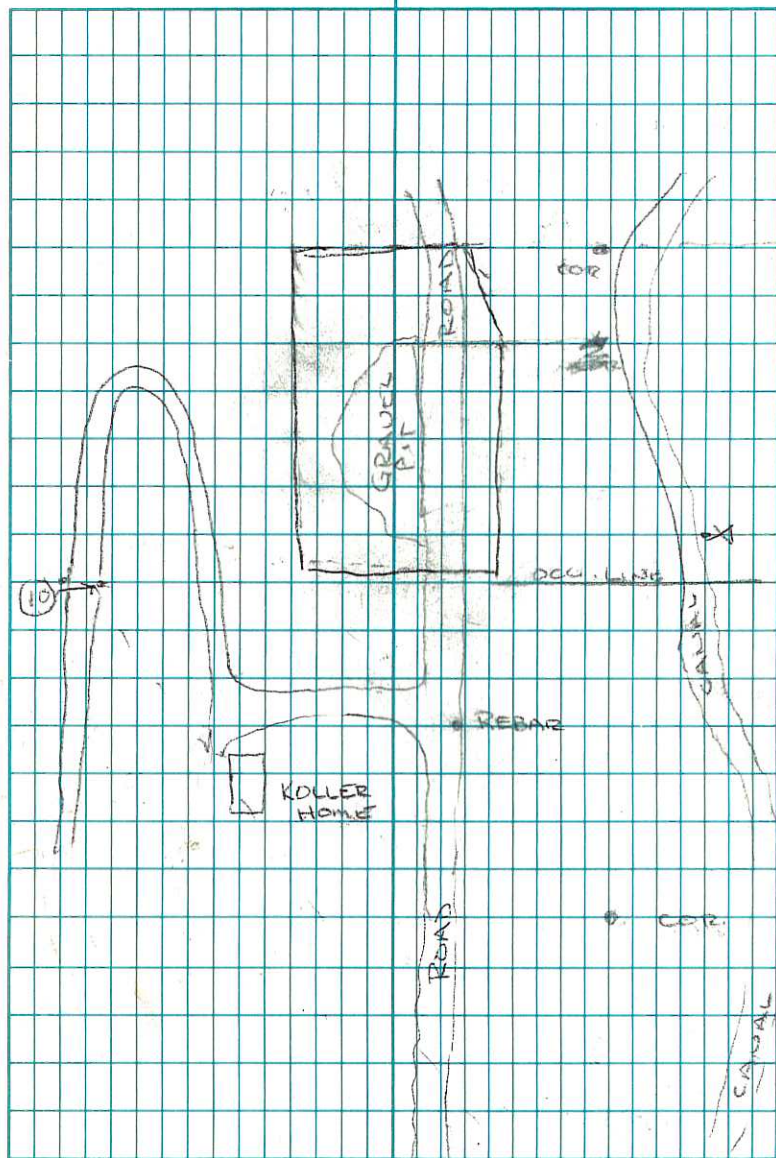
COUNTY GRAVEL PIT (CORNISH)

SOLD TO EVAN KOLLER 1997

SET UP ON PT 10 BACKSITE PT 1

± 0°00'00"

| | | | | |
|----|--------------|--------------|---------|--|
| 24 | 2" pipe | 1° 17' 28" | 2458.15 | |
| 25 | REBAR & ROAD | 1° 39' 35" | 2457.31 | |
| 26 | ROAD | 0° 47' 26" | 2285.91 | |
| 27 | Q | 358° 43' 27" | 2052.12 | |
| 28 | Q | 348° 27' 22" | 1421.12 | KOLLER DRIVE |
| 29 | REBAR | 347° 57' 08" | 1425.74 | BY KOLLER MAIN BOX |
| 30 | Q | 343° 04' 03" | 1261.68 | |
| 31 | Q | 324° 36' 40" | 924.47 | ON OLD FIELD LINE *THE OLD LINES HAVE BEEN PLOWED OUT IN THE PAST FEW DAYS WE CAN STILL SEE WHERE THEY WERE |
| 32 | FIELD LINE | 319° 02' 32" | 1093.76 | |
| 33 | Q | 276° 47' 42" | 763.19 | CURVE BEGINS 100' BEHIND THIS PT. |
| 34 | Q | 245° 08' 46" | 983.02 | ON NORTH LINE OF PIT |
| 35 | CANAL | 268° 34' 04" | 1847.88 | NORTH LINE |
| 36 | CANAL | 273° 00' 59" | 1891.46 | |
| 37 | CANAL | 276° 47' 57" | 1942.29 | |
| 38 | CANAL | 287° 30' 06" | 2173.84 | |
| 39 | CANAL | 294° 15' 40" | 2376.56 | |
| 40 | CANAL | 299° 23' 14" | 2539.55 | |
| 41 | CANAL | 302° 09' 59" | 2638.33 | |
| 42 | CANAL | 302° 51' 06" | 2656.66 | OLD FIELD LINE |



FOUND STONE PLAINLY MARKED
 LYING ABOUT 2 FEET SOUTH OF WHAT
 APPEARED TO BE A MOUND OF STONES.
 THERE WAS AN INDENTATION THAT
 INDICATED WHERE THE MARKED STONE
 HAD BEEN.

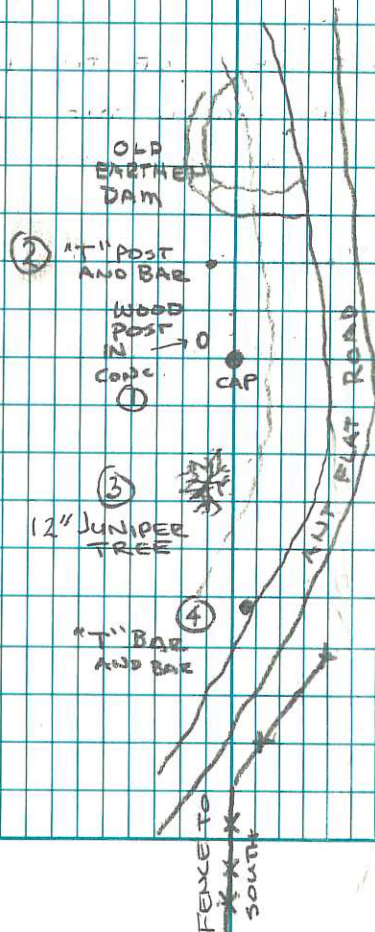
SET AN ALUM CAP AT LOCATION
 OF WHERE THE STONE WAS ORIGINALLY
 PLACED. SET ORIGINAL STONE ALONG
 NORTH SIDE OF CAP AND CEMENT
 BOTH IN PLACE. MARKINGS ON STONE
 ARE VISABLE. 5 NOTCHES SOUTH
 2 NOTCHES EAST.

| | |
|-------|-------|
| CAP-1 | 2.5' |
| 2 | 47.6' |
| 3 | 64.1' |
| 4 | 176.1 |

5-21-98

T9N R3E

| | |
|----|----|
| 3 | 2 |
| 10 | 11 |



6-25-98

FOUND FOREST SERVICE ALUM CAP
SET IN MOUND OF STONES
ANOTHER MOUND OF STONE IS WEST
OF CAP.

THIS CORNER IS IN AN OPEN AREA
JUST TO THE LEFT OF THE HIGHWAY
AS YOU ARE DRIVING UP THE HIGHWAY

($41^{\circ}57'55''$) SCALED
($111^{\circ}31'35''$)

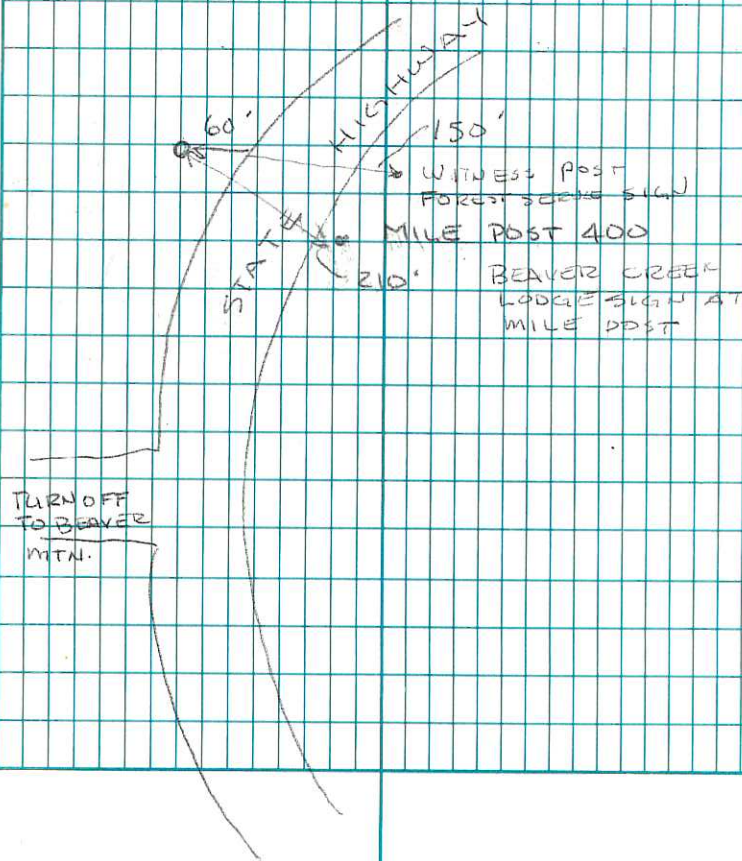
T14N R4E

$\frac{7}{8}$
 $\frac{18}{17}$

($41^{\circ}57'55''$) MEAS
($111^{\circ}31'38''$)

12456310 E

4646004



6-25-98

FOUND A BLM BRASS CAP
RESET SIGN AND POST

THIS CORNER IS IN THE MIDDLE
OF A LARGE OPEN AREA
385 PAGES TO BEAVER CREEK

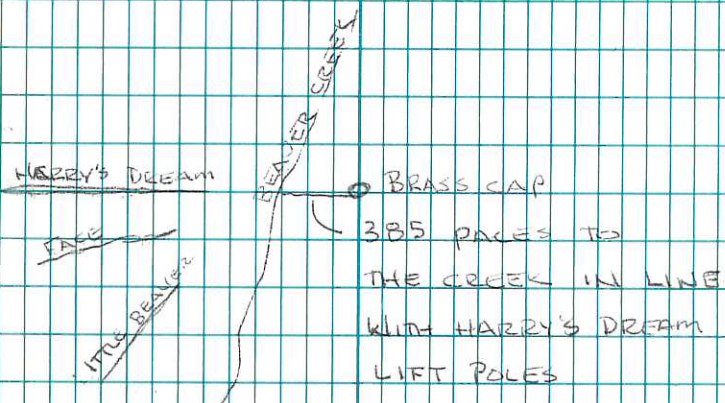
THE SKI LIFT TO THE TOP BEAVER
MTN IS ALMOST DUE WEST OF
THIS CORNER

T14N R4E

~~4° 58' 22"~~
~~111° 31' 39"~~
4° 58' 21"
111° 31' 39"

8+7

12456285 E
4646868 N



6-25-98

FOUND BLM BRASS CAP

THIS CORNER IS IN A GROVE OF PINE
TREES. 2 OF THE ~~OF~~ TREES HAVE BLAZE
MARKS. IT APPEARS THAT A TREE HAS BEEN
REMOVED NEXT TO THE CORNER

PUT IN NAILS AND SHINERS ALONG
LINE FROM THE ROAD TO THE SEC.
COR.

$41^{\circ}58'47''$

$111^{\circ}31'39''$

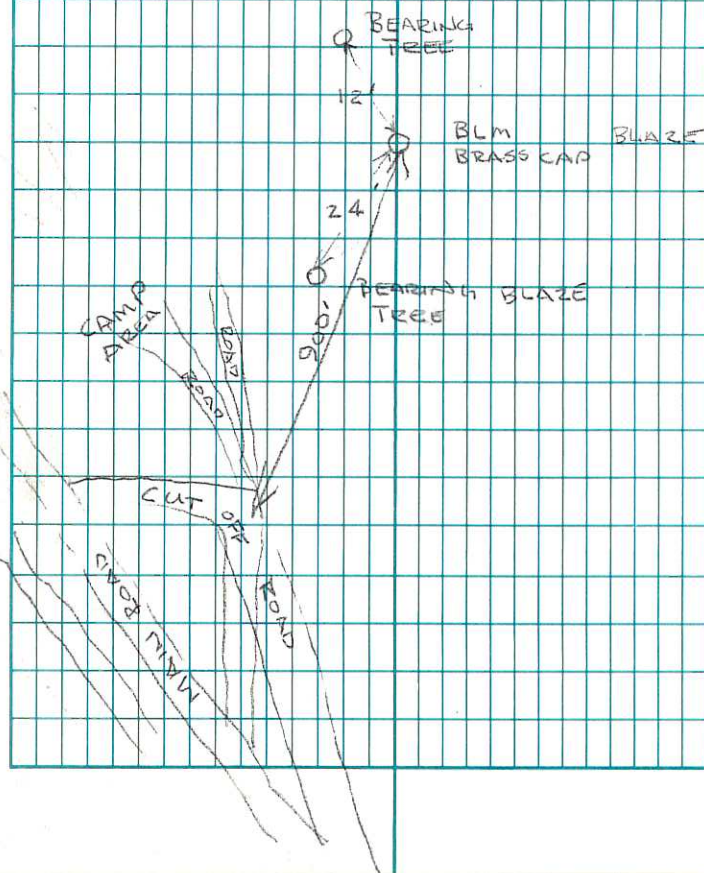
TIAN RAE

6 | 5

7 | 8

12456368 E

4647850



FOUND BLM BRASS CAP IN
MOUND OF STONES

CORNER IS ON STEP HILL SIDE
ABOUT 100 FT FROM THE BOTTOM
OF A RAVINE THERE IS A FOREST
BOUNDARY POST AT THE BOTTOM OF
THE RAVINE.

THE CORNER IS ABOUT 30 FEET
FROM THE TOP OF THE RIDGE.

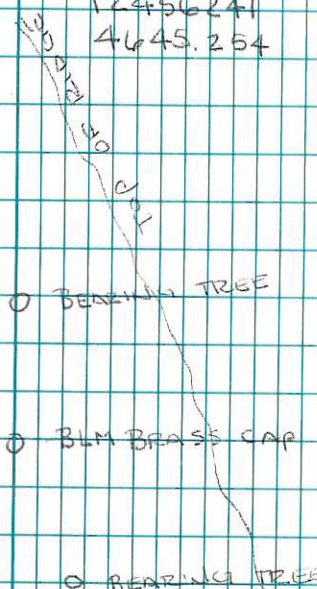
THERE ARE 2 BEARING TREES. THE
SOUTH TREE IS BLAZED BOTH TREES
HAVE BEARING TREE PLAQUES. THERE
ARE SEVERAL FOREST BOUNDARY MARKERS
ON TREES IN THE AREA.

T14NR4E

41° 58' 06"
111° 31' 43"

18-17

12456241
4645.254



IS
SOUTH
SIDE
OF
RIDGE
BOTTOM
OF
RIDGE

FOUND BLK BRASS CAP IN
MOUND OF STONES
SEVERAL FOREST BOUNDARY SIGNS
AROUND 2 "T" BAR FENCE POSTS
NE AND E OF CORNER

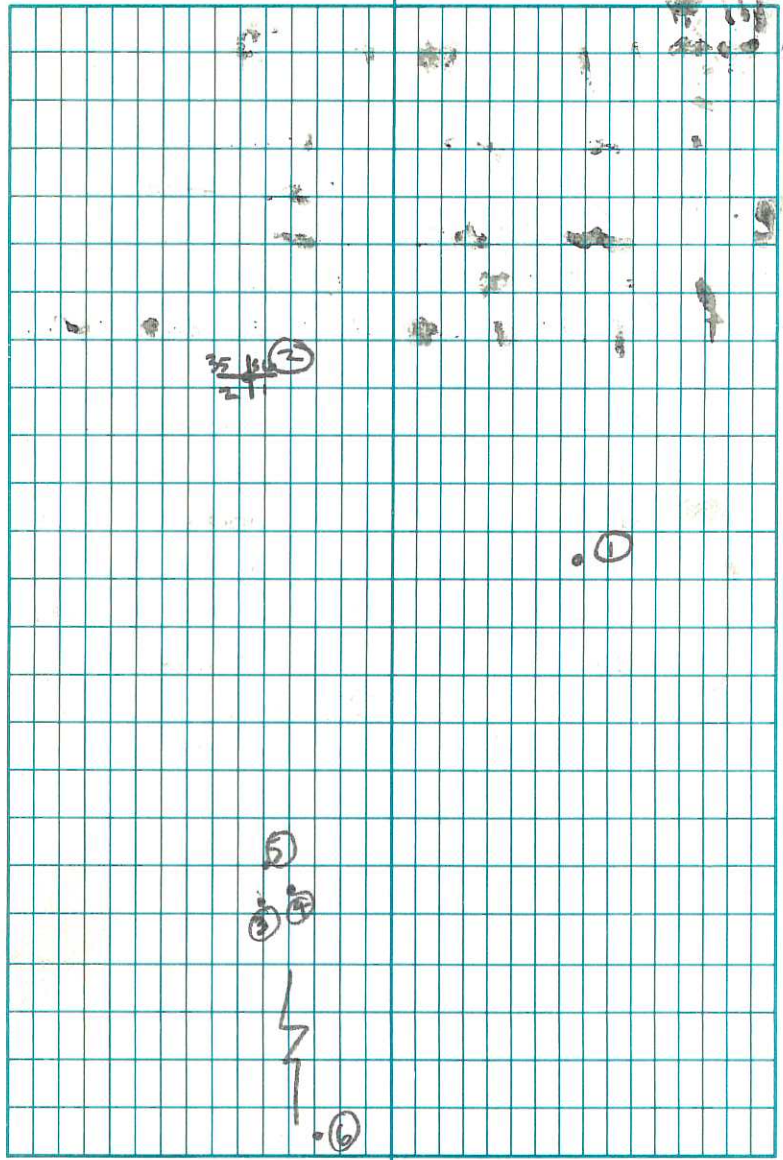


| | |
|----|----|
| 19 | 2 |
| 16 | 17 |
| 19 | 20 |

7/2/99

R. D. / BISHOP J. (T)

| PT | ANGLE | H.D. | NOTES |
|---------|---------------------|---------------------|------------------------------|
| 1 (CP) | | | CP 1 |
| BS 2 | 0°00'00" | 1626.55' | SECTION CORNER |
| FS 3 | 253°55'01" | 1777.09 | REBAR |
| FS 4 | 253°25'28" | 1779.15 | FENCE CORNER |
| 1 (CP) | | | CP 1 |
| BS 2 | 0°00'00" | 1626.55' | SECTION CORNER |
| FS 3 | 253°55'01" | 1777.09 | REBAR CP 2 |
| FS 4 | 253°25'28" | 1779.15 | EXISTING CEDAR 1/4 CORNER |
| 3 (CP2) | | | CP 2 |
| BS 4 | 0°00'00" | 23.90' | EXISTING 1/4 CORNER |
| FS 5 | 280°51'53" | 65.78' | CEDAR POST |
| 56 | 103°17'00" | 2711.73' | SECTION CORNER |



8-13-98

SAM FELLER ROAD

CURVE

STA HI + ELEV

BM 106.90 6.90

1 6.02 100.88

2 6.20 100.70

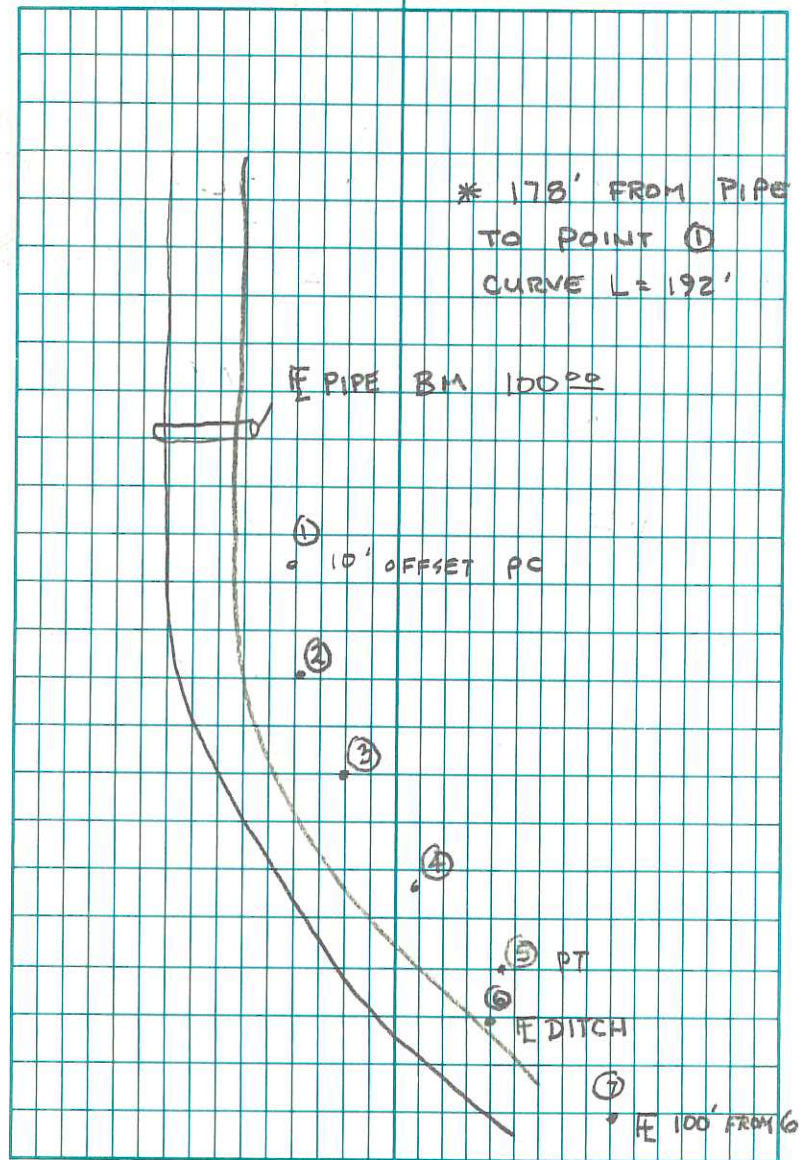
3 6.28 100.62

4 6.09 100.81

5 6.33 100.57

6 7.73 99.17

7 8.11 98.79

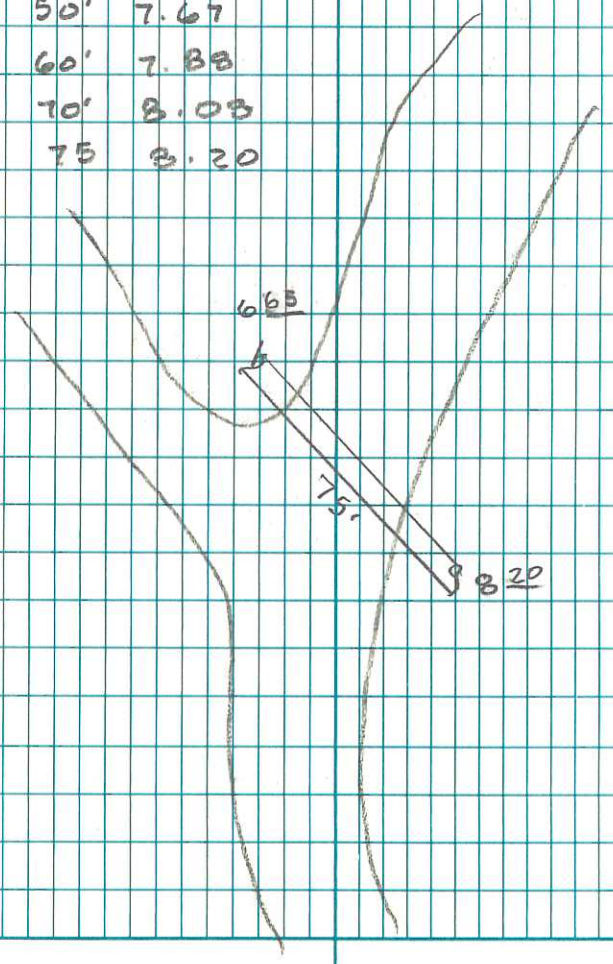


~~6.27~~
~~8.13~~
 1.16 70'
 1.65%
 .0165' / '

6.35
 8.13 1.78
 .165
 2.54%
 2.54%
 0.254' / FT
 .25 / 10'

6.65 1.55
 8.20 75'
 .0206
 22
 2.06%
 .206' / 10'

10' - 6.35
 20' - 7.06
 30' - 7.26
 40' 7.47
 50' 7.67
 60' 7.88
 70' 8.08
 75 8.20



CHILDREN JUSTICE CENTER
1400 No 400W. LOGAN

10 Nov 98

CP- 0°00'00" 150.69

CP- 8°18'53" 98.90

12 11°46'00" 86.89

15 55°56'52" 41.53

16 262°11'00" 108.95

6 290°54'02" 133.60

TION

RIW

26 | 25

2 DEC 1998

35 | 36

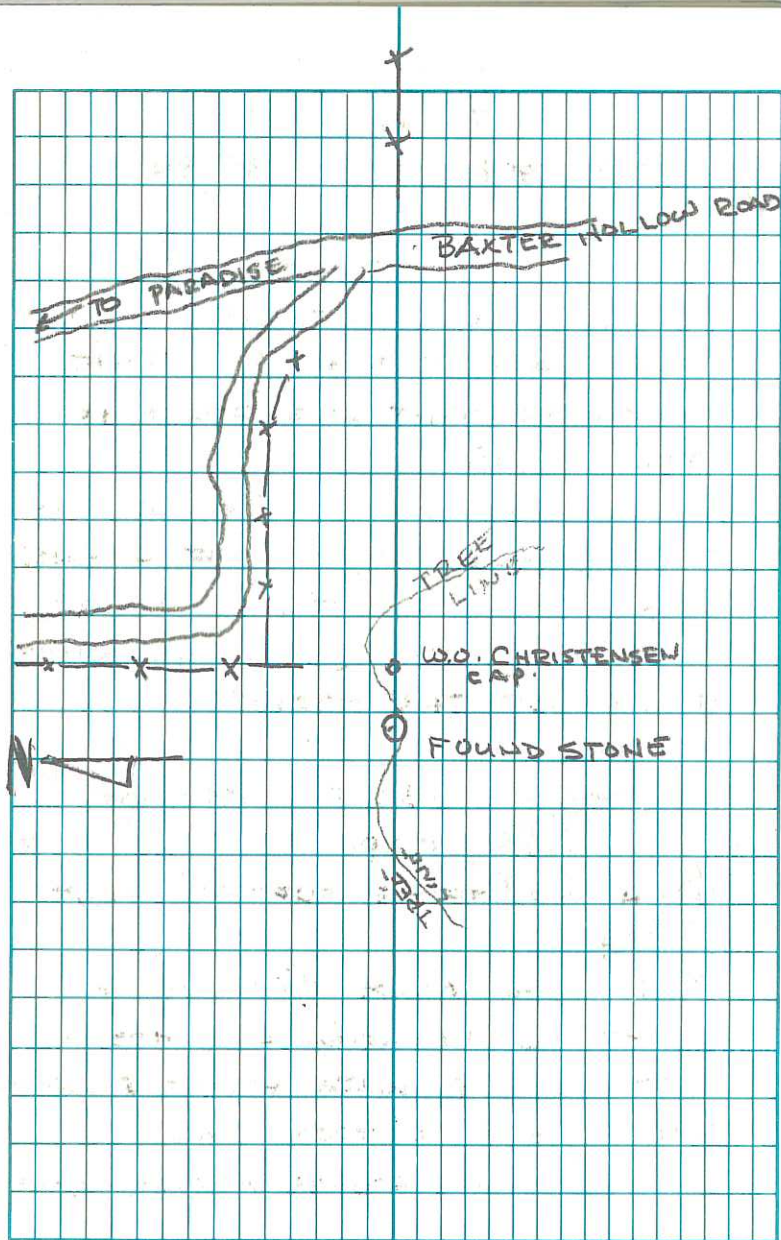
FOUND LARGE STONE
(NOTES CALL FOR A 24 X 15 X 10
THE STONE THAT WAS FOUND IS
THAT SIZE)

2 MARKS WERE FOUND ON
THE STONE WHEN THE STONE
WAS STOOD UP THESE MARKS
WERE ON THE SOUTH AND EAST
SIDES OF THE STONE

STONE IS 133± FT WEST OF
CHRISTENSEN CAP. IT IS IN LINE
WITH THE FENCE FURTHER EAST

3 DEC 1998

SET A 30" ALUM. PIPE AND CAP
IN STONES LOCATION SET STONE
NEXT TO CAP WITH MARKS SHOWING
WOOD POST 3' FROM CAP
PLACED OTHER STONES AROUND CAP
AND POST



GENIE FILE: SMITY

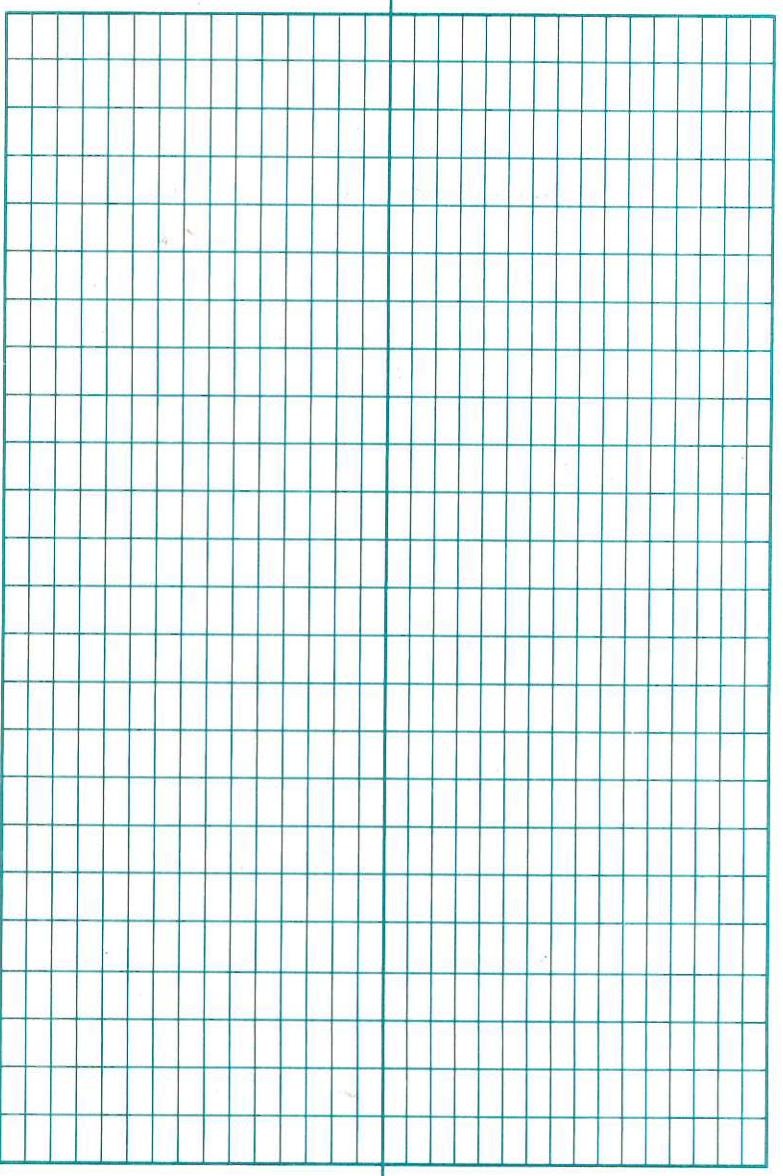
SMITHFIELD SECTION CORNERS

WARD / CHRISTIANSON

July 7, 1999

T 13N R 1E

| STA | ANGLE/DMS | DISTANCE/FT | NOTE |
|---|-----------|-------------|---|
| 100 | — | — | CP 1 |
| BS 1 | 0 00 00 | 8487.58 | 0072 $\frac{13}{18}$ 24 |
| FS 2 | 143 38 34 | 5363.53 | 0110 146 |
| PTS POINTS 3, 4, 5, 6 ARE PROPORTION BETWEEN 1 & 2 | | | |
| FS 99 | | | CP 2 |
| 100 | — | — | |
| BS 2 | 0 00 00 | | |
| FS 99 | 291 26 12 | 3388.92 | CP 2 |
| 99 | | | CP 2 |
| BS 100 | 0 00 00 | — | CP 1 |
| FS 7 | 65 08 40 | 3185.82 | S.S. CAP $\frac{12}{7}$ $\frac{13}{18}$ |
| 8 | 224 49 02 | 5439.59 | FENCE INT. PT. 10' AWAY FROM FENCE INT. PT ON FENCE |
| 9 | 224 16 24 | 5389.95 | |
| 10 | 140 06 04 | 12263.22 | 0188 |
| 98 | 116 39 22 | 9354.40 | CP 3 |
| POINT 11 IS THE FENCE INTERSECTION IN GENIE | | | |
| 98 | | | |
| BS 99 | 0 00 00 | — | |
| FS 12 | 340 30 23 | 304.82 | Pole CAP |



SMITHFIELD S.C. (cont.)

7/21/99

D. WARD / E. CHRISTENSEN

| <u>STA</u> | <u>4</u> | <u>H.D.</u> | <u>NOTES</u> |
|------------|---------------------|-------------|-----------------------|
| 99 | <u> </u> | <u> </u> | CP 2 |
| Bs 100 | 0° 00' 00" | - | CP 1 |
| FS 97 | 80° 25' 45" | 5099.74 | CP 3 |
| 13 | 138° 57' 36" | 7241.87 | POSS 1/4 CORNER 14/13 |
| 14 | 142° 56' 57" | 6768.72 | 1/16 |
| 15 | 148 18' 00" | 6273.52 | S.C. 11/12 14/13 |

97

| | | | |
|-------|--------------|--------|-------------|
| Bs 97 | 0° 00' 00" | - | CP 2 |
| FS 16 | 158° 35' 15" | 684.31 | 13/16 10/16 |

12456259

12456259

4646027



4645215

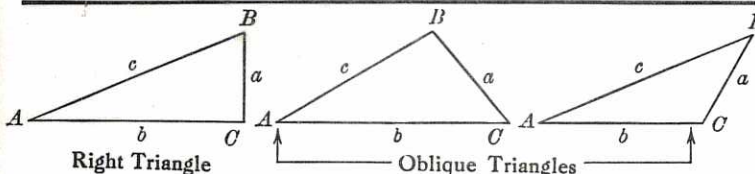
464403

1:2263.28

9354.36

.41

TRIGONOMETRIC FORMULAE



Solution of Right Triangles

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

| 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 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\text{Cosine } 5^\circ 10' = .9959$. $1 - .9959 = .0041$. $319.4 \times .0041 = 1.31$. $319.4 - 1.31 = 318.09$ 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.

