

3013

Book "J"

4-679

March 1918

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BOOK 3013

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES,

RESURVEY OF

NORTH BOUNDARY,

AND

RETRACEMENT OF

ONE MILE OF EAST BOUNDARY

OF

TOWNSHIP 12 SOUTH, RANGE 22 EAST,

Of the Gila and Salt River Base and Meridian,

In the State of Arizona,

EXECUTED BY

QUINTIN CAMPBELL,

U. S. Transitman,

~~In the capacity of U. S. Surveyor~~, under instructions dated October 7, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 53, which were approved by the Commissioner of the General Land
Office, October 28, 1915.

Survey Commenced February 9, 1917.

Survey Completed April 20, 1917.
Executed under Assignment
Instructions dated Feb. 1, 1916.

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Book "J"

Group 63 - - Arizona.

Resurveyed, Current Group 35

BOOK 3013

INDEX DIAGRAM.

Township	12 SOUTH						Range					22 EAST	
	3	2 and 4		2 and 5		2 and 5		2 and 6		1 and 7			
6	45	5	37	4	29	8	21	2	13	1			
45		44		36		29		21		13			
7	41	8	35	9	28	10	20	11	13	12			
43		43		34		27		20		12			
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- Surveyed under this group--notes in this book. (3013)
- Retraced or resurveyed under this group--notes in this book. (3013)
- Surveyed under this group--notes in Book "F".
- Resurveyed under this group-- " " " " .
- Surveyed under this group--notes in Book "I".
- Resurveyed under this group-- " " " " .
- Accepted surveys.
- Unsurveyed.

Retracement of One Mile of E. Bdy.,
Resurvey of N. Bdy., and
Subdivision of T. 12 S., R. 22 E.

BOOK 3013

18

Chains

Work executed by U. S. Transitman Quintin Campbell, on dates shown on diagram on page 49 of this book, using Young & Sons' light mountain transit No. 8499, with Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the lat. and decl. arcs. The instrument was approved subject to satisfactory field tests, by the Assistant Supervisor of Surveys of District No. 5, on Dec. 7, 1916.

Field Test of Instrument. Feb. 8, 1917. I set up the instrument at camp, in the vicinity of the cor. of Ts. 12 and 13 S., Rs. 22 and 23 E., in lat. $32^{\circ}20'N.$, long. $110^{\circ}03'W.$, examine the level and collimation adjustments, and correct errors.

At 4h 00m, p.m., l.m.t., I set off $32^{\circ}20'$ on the lat. arc, $14^{\circ}53'S.$ on the decl. arc, and determine a meridian with the solar, marking a point in the same by a tack driven in a wooden stake firmly set in the ground 5 chs. N. of my station.

At 10h 12m, p.m., l.m.t., I observe Polaris at western elongation, in accordance with instructions in the Manual, and mark a point in the line thus determined by a tack driven in a wooden stake firmly set in the ground W. of the one set by the solar.

Feb. 9, 1917.

At 7h 30m, a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}20'$ to the E., and mark the meridian thus determined by driving a tack in the stake set by the solar.

At 8h 00m, a.m., l.m.t., I set off $32^{\circ}20'$ on the lat. arc, $14^{\circ}41\frac{1}{2}'S.$ on the decl. arc; and determine a meridian with the solar.

The results of both a.m. and p.m. solors agree within less than one minute of arc with the true meridian established by the Polaris observation; from which I conclude that the adjustments are satisfactory.

At convenient times throughout the survey, the solar apparatus was tested and the adjustments maintained, by comparison with the true meridian determined by observations on Polaris.

The magnetic declination is $13^{\circ}45'E.$

Retracement of One Mile of E. Bdy. of T. 12 S., R. 22 E.

From the cor. of secs. 24 and 25, on E. bdy. of Tp., which is a 3 in. iron post, firmly set, marked and witnessed as described by the Surveyor General;

$N.0^{\circ}07'W.$, retracing the E. bdy. of sec. 24, over mountainous land, through scattering timber and undergrowth.

.50 Wash, 30 lks. wide, 3 ft. deep, course E.

.88 The closing cor. of secs. 19 and 30, T. 12 S., R. 23 E., which is a 2 in. iron post, firmly set, marked and witnessed as described by the Surveyor General.

2.00 Wash, 50 lks. wide, 2 ft. deep, course E. Asc. 100 ft., over rocky S. slope.

12.00 Top of spur projecting E. Desc. 150 ft., over rocky N. slope.

22.00 Road bears E. and W.

23.00 Bottom of Oak Grove Canyon, 50 lks. wide across bed, course E. Asc. over abrupt, rocky S. slope, broken by cliffs.

31.33 The witness cor. to $\frac{1}{4}$ sec. cor. of sec. 24, which is an iron post, 1 in. diam., firmly set, marked and witnessed as described by the Surveyor General.

40.00 The true point for $\frac{1}{4}$ sec. cor., on inaccessible rocky cliff.

57.00 Top of high ridge, bears E. and W., 980 ft. above bottom of Oak Grove Canyon. Desc. 600 ft., over rocky N. slope.

78.00 Wash, 20 lks. wide, 3 ft. deep, course NW.

80.00 The cor. of secs. 13 and 24, which is a 3 in. iron post, firmly set, marked and witnessed as described by the Surveyor General.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, juniper, cedar and scrub oak.

Undergrowth, scrub oak.

Chains	
40.16	<p>From the cor. of Ts. 11 and 12 S., Rs. 22 and 23 E., which is a 3 in. iron post with brass cap, firmly set, marked and witnessed as described by the Surveyor General; WEST, on a random line, bet. secs. 1 and 36.</p> <p>Fall 41 lks. N. of the $\frac{1}{4}$ sec. cor., which is a granite stone, 10x6x4 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. The true return course and distance is therefore N.89°25'E., 40.16 chs.</p>
40.20	<p>Thence WEST, on a random line, bet. W. halves of secs. 1 and 36.</p> <p>Fall 28 lks. N. of the cor. of secs. 1, 2, 35 and 36, which is a granite stone, 12x6x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. The true return course and distance is therefore N.89°36'E., 40.20 chs.</p>
120.00	<p>WEST, on a random line, bet. secs. 2 and 35. After diligent search in the vicinity of the 40 and 80 ch. pts., I fail to find any trace of the old cors. Continue WEST, bet. secs. 3 and 34.</p> <p>Fall 73 lks. N. of the $\frac{1}{4}$ sec. cor., which is a malpais stone, 12x7x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. The true return course and distance is therefore N.89°39'E., 120.00 chs.</p>
40.21	<p>WEST, on a random line, bet. W. halves of secs. 3 and 34.</p> <p>Fall 52 lks. N. of the cor. of secs. 3, 4, 33 and 34, which is a sandstone, 7x6x5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. The true return course and distance is therefore N.89°15'E., 40.21 chs.</p>
39.81	<p>WEST, on a random line, bet. secs. 4 and 33.</p> <p>Fall 36 lks. N. of the $\frac{1}{4}$ sec. cor., which is a malpais stone, 20x12x5 ins., lying on the ground, by a mound of stone, properly marked. The true return course and distance is therefore N.89°29'E., 39.81 chs.</p>
39.81	<p>WEST, on a random line, bet. W. halves of secs. 4 and 33.</p> <p>Fall 36 lks. N. of the cor. of secs. 4, 5, 32 and 33, which is a sandstone, 10x7x4 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. The true return course and distance is therefore N.89°29'E., 39.81 chs.</p>
40.00	<p>West, on a random line, bet. secs. 5 and 32. After diligent search in this vicinity, fail to find any trace of the $\frac{1}{4}$ sec. cor.</p>
80.28	<p>Intersect the cor. of secs. 5, 6, 31 and 32, which is a malpais stone, 12x10x6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.</p> <p>The true return course and distance is therefore EAST, 80.28 chs.</p>

Resurvey of N. Bdy. of T. 12 S., R. 22 E. (Retracement cont'd.) 3

Chains

- 40.00 WEST, on a random line, bet. secs. 6 and 31. After diligent search in this vicinity, fail to find any trace of the $\frac{1}{4}$ sec. cor.
- 76.44 Fall 50 lks. N. of the closing cor. of Ts. 12 S., Rs. 21 and 22 E., described in Book I.
- 79.54 Fall 50 lks. N. of the cor. of Ts. 11 S., Rs. 21 and 22 E., described in Book I.

The true return course and distance is therefore N.89°39' E., 79.54 chs.

Resurvey.

- N.89°39' E., on a true line, on S. bdy. of sec. 31, T. 11 S., R. 22 E., over rocky and hilly land. Desc. 20 ft.
- 3.10 The closing cor. of Ts. 12 S., Rs. 21 and 22 E., hereinbefore described, bears S.0.02 lks. dist. Thence over mountainous land, through scattering oak and cedar growth. Desc. 100 ft.
- 8.00 Wash, 20 lks. wide, 4 ft. deep, course NE. Asc. 80 ft.
- 15.10 Top of spur, projecting N. Desc. 240 ft.
- 38.85 (Proportional distance) set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor. of sec. 31, marked on brass cap

$\frac{1}{4}$ S31

1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

- 39.54 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. of sec. 6, marked on brass cap,

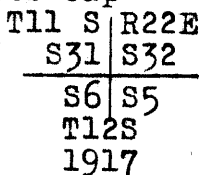
$\frac{1}{4}$ S6

1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor.

- 42.07 Desc. 20 ft. Wash, 10 lks. wide, 10 ft. deep, course NW. Asc. 450 ft., over W. slope.

- 79.54 The cor. of secs. 5, 6, 31 and 32, hereinbefore described, which I reestablish by setting an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground beside original stone, marked on brass cap



from which

- A juniper, 24 ins. diam., bears S.85°E., 295 lks. dist., marked T12S R22E S5 BT.
- An oak, 6 ins. diam., bears S.82 $\frac{1}{2}$ °W., 43 lks. dist., marked T12S R22E S6 BT.
- An oak, 14 ins. diam., bears N.52°15'W., 77 lks. dist., marked T11S R22E S31 BT.
- No other bearing tree available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering cedar and oak.
 Undergrowth, scrub oak.

Resurvey of N. bdy. of T. 12 S., R. 22 E.

Chains

EAST, on a true line, bet. secs. 5 and 32, over rocky, mountainous land, through scattering oak and cedar growth. Asc. 270 ft.

11.30 Top of ridge, bears NE. and SW. Desc. 460 ft.

40.14 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, for reestablished $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$	S32
	—
	S 5
	1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

An oak, 14 ins. diam., bears N.60°E., 166 lks. dist., marked $\frac{1}{4}$ S32 BT. No other bearing tree available. Inasmuch as a cor. for two secs. was established for secs. 4 and 5, on the N. bdy. of the Tp., in the subdivision of the same, as hereinafter described, the $\frac{1}{4}$ sec. cor. will pertain solely to sec. 32; and the true point for the $\frac{1}{4}$ sec. cor. of sec. 5 will be midway bet. the cor. of secs. 4 and 5 and the cor. of secs. 5, 6, 31 and 32.

50.00 Desc. on steep slope,

Mud Springs bears S., 5 chs. dist.

63.13 Hooker's Hot Springs Trail, bears NE. and SW.

63.48 Stream, 10 lks. wide, 4 ft. deep, course NE., 420 ft. below $\frac{1}{4}$ sec. cor.

68.00 Wash, 20 lks. wide, 6 ft. deep, course NE.

71.28 Corrugated iron house bears S., 3 chs. dist.

74.78 Wash, 30 lks. wide, 3 ft. deep, course N. Asc. 70 ft.

79.95 (Midway bet. the cor. of secs. 3, 4, 33 and 34 and the cor. of secs. 5, 6, 31 and 32) in order to avoid an excessive bearing in the line bet. secs. 4 and 5,

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for reestablished cor. of secs. 4, and 5, marked on brass cap

S5	S4
T12S	R22E

1917

from which

A juniper, 12 ins. diam., bears S.19 $\frac{1}{2}$ °W., 151 lks. dist., marked T12S R22E S5 BT.

A juniper, 6 ins. diam., bears S.43°E., 88 lks. dist., marked T12S R22E S4 BT.

80.28 The cor. of secs. 4, 5, 32 and 33, hereinbefore described, which I reestablish as the cor. of secs. 32 and 33 only, by setting an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, (beside original cor.,) marked on brass cap

T11S	R22E
S32	S33

1917

from which

A cedar, 6 ins. diam., bears N.66°E., 26 lks. dist., marked T11S R22E S33 BT.

A cedar, 6 ins. diam., bears N.41°W., 66 lks. dist., marked T11S R22E S32 BT.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak and cedar.

Undergrowth, scrub oak.

Resurvey of N. Bdy. of T. 12 S., R. 22 E.

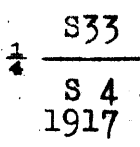
Chains

N. 89° 29' E., on a true line, bet. secs. 4 and 33, over rocky, mountainous land, through scattering oak and cedar. Asc. 30 ft.

2.00 Summit of ascent, on side hill. Desc. 225 ft., over NE. slope.

30.00 Wash, 10 lks. wide, course N. Asc. 40 ft.

39.81 The old 1/4 sec. cor., hereinbefore described, which I reestablish by setting an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, with original cor., marked on brass cap



from which

An oak, 16 ins. diam., bears S. 68 1/2° E., 53 lks. dist., marked 1/4 S4 BT.

An oak, 8 ins. diam., bears N. 75° 10' W., 182 lks. dist., marked 1/4 S33 BT.

Owing to the establishment, later, on the N. bdy. of the Tp., of a cor. of two secs. at the termination of the line bet. secs. 4 and 5, as hereinafter described, this cor. will relate to sec. 33 only. The point for 1/4 sec. cor. of sec. 4 will fall mid-way bet. the cor. of secs. 3, 4, 33 and 34 and the cor. of secs. 4 and 5.

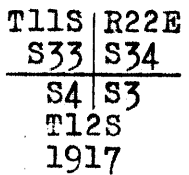
Asc. 100 ft., over NW. slope.

52.15 Top of spur, projects NW. Desc. 130 ft.

69.87 Bottom of ravine, 20 lks. wide at bottom, course N.; heads 5 chs. S. of line. Asc. 90 ft.

77.40 Top of ridge, bears NE. and SW. Desc. 40 ft.

79.62 The cor. of secs. 3, 4, 33 and 34, hereinbefore described, which I reestablish by setting an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground beside original cor., marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak and cedar.

Undergrowth, scrub oak.

N. 89° 15' E., on a true line, bet. secs. 3 and 34, over rocky, mountainous land, through scattering scrub oak.

.05 NW. cor. of fence running E. and S. Desc. 150 ft.

7.80 Bottom of ravine, 10 lks. wide at bottom, course NE. Asc. 90 ft.

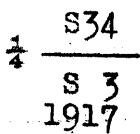
18.50 Top of low ridge, bears NW. and SE. NE. cor. of fence, running W. and S. Desc. 100 ft.

26.50 Head of ravine, 15 lks. wide at bottom, course S. Asc. on slope of spur.

32.50 Juana Martinez's house bears S., 19 chs. dist.

37.00 Top of spur, projecting S. from rocky side hill. Desc. 50 ft.

40.21 The 1/4 sec. cor., hereinbefore described, which I reestablish by setting an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground beside the original cor., marked on brass cap



Chains

from which

An oak, 6 ins. diam., bears N.67°30'E., 77 lks. dist.,
marked $\frac{1}{4}$ S34 BT. (Old bearing tree is dead and decayed.)
No other bearing tree available. Raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Thence N.89°39'E.

Desc. 120 ft., over rocky E. slope.

- 6.00 Ft. of slope, bears N. and S.
13.00 Road, bears NE. and SW.
16.00 Rocky ravine, 50 lks. wide at bottom, course NE. Asc.
50 ft. over N. end of rocky spur, projecting N. from
side hill.
21.80 Top of spur, projects N. Desc. 50 ft.
25.00 Ft. of slope, bears NW. and SE. Thence across level valley
land.
36.00 Road, at forks, bears NW., SE., and E.
36.20 Cor. of fence, running NW. and E.
40.00 (Proportional distance) set an iron post, 3 ft. long, 3
ins. diam., 24 ins. in the ground, for reestablished
cor. of secs. 2, 3, 34 and 35, marked on brass cap
- | | |
|------|------|
| T11S | R22E |
| S34 | S35 |
| S3 | S2 |
| T12S | |
| 1917 | |
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, mountainous, 65 chs.; level, 15 chs.

Soil, rocky; 4th rate.

Timber, scattering oak.

Undergrowth, scrub oak.

N.89°39'E., on a true line, bet. secs: 2 and 35,
over level valley land, along fence, on N. side of road.

- 22.80 Cor. of fence, running W. and N.70°E.
23.50 Forks of road, bearing N.70°E., SW. and W.
32.56 Rocky wash, from Riley Canyon, 100 lks. wide, course NE.
Enter scattering oak timber.
40.00 (Proportional distance,) set an iron post, 3 ft. long,
1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.,
marked on brass cap

$\frac{1}{4}$	S35
	S 2
	1917

from which

An oak, 24 ins. diam., bears S.77 $\frac{1}{4}$ °E., 215 lks. dist.,
marked $\frac{1}{4}$ S2 BT.

An oak, 18 ins. diam., bears N.70°W., 317 lks. dist.,
marked $\frac{1}{4}$ S35 BT.

- 79.90 NW. cor. of wire fence, bearing E. and S.
80.00 The cor. of secs. 1, 2, 35 and 36, hereinbefore described,
which I reestablish by setting an iron post, 3 ft. long,
3 ins. diam., 24 ins. in the ground beside original
cor., marked on brass cap

T11S	R22E
S35	S36
S2	S1
T12S	
1917	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

Land, level.

Soil, gravel and rock; 4th rate.

Timber and undergrowth of oak.

Resurvey of N. Bdy. of T. 12 S., R. 22 E.

Chains

- N. 89°36'E., on a true line, bet. secs. 1 and 36, over level valley land, along S. side of barbed wire fence.
- 40.20 The 1/4 sec. cor., hereinbefore described, which I reestablish by setting an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground beside original cor., marked on brass cap

1/4	S36
	S 1
	1917

 and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
 Thence N. 89°25'E.
- 17.80 David C. Thurman's house brs. south 22.36 chs. dist.
- 22.50 Reservoir, 100 ft. diam., and artesian well 2 brs. S. 30°45' chs. dist. described.
- 40.16 The cor. of Ts. 11&12 S. Rs. 22&23 E., hereinbefore described. Land, level. Soil, sandy loam; 1st rate. No timber or undergrowth.

Subdivision of T. 12 S., R. 22 E.

- Beginning at the cor. of secs. 1, 2, 35 and 36, on S. bdy. of Tp., described in Book F,
- Thence N. 0°08'W., (parallel to E. bdy. of Tp.,) bet. secs. 35 and 36; over steeply sloping, rocky, mountainous land, through dense growth of scrub oak, cedar and pinyon. Desc. 140 ft., on NE. slope.
- 10.00 Ravine, 20 lks. wide at bottom, course S. 75°E. Asc. 100 ft.
- 14.90 Top of spur, projecting S. 75°E. Desc. 50 ft.
- 19.85 Head of ravine, 50 lks. wide at bottom, course SE. Asc. 160 ft.
- 26.40 Top of ridge, bears NE. and SW. Desc. 250 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4	S35 S36
	1917

 from which
 An oak, 8 ins. diam., bears S. 2°54'E., 100 lks. dist., marked 1/4 S36 BT.
 A pinyon, 8 ins. diam., bears S. 7°10'W., 121 lks. dist., marked 1/4 S35 BT.
 Desc. 290 ft.
- 56.00 Bed of rocky canyon, 100 lks. wide at bottom, course NE. Asc. 75 ft.
- 62.00 Top of spur, projects E. Desc. 160 ft.
- 71.00 Wood Canyon, 150 lks. wide at bottom, course E. Asc. 180 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground, to bed rock, and 12 ins. in a mound of stone, for cor. of secs. 25, 26, 35 and 36, marked on brass cap

T12S	R22E
S26	S25
S35	S36

 1917
 from which

Chains

An oak, 6 ins. diam., bears N.52°20'E., 71 lks. dist., marked T12S R22E S25 BT.
 An oak, 6 ins. diam., bears S.42°30'E., 124 lks. dist., marked T12S R22E S36 BT.
 An oak, 12 ins. diam., bears S.43°40'W., 125 lks. dist., marked T12S R22E S35 BT.
 An oak, 6 ins. diam., bears N.10°10'W., 51 lks. dist., marked T12S R22E S26 BT.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, oak, cedar, pinyon and madrone.
 Undergrowth, scrub oak, manzanita and catclaw.

40.00 EAST, on a random line, bet. secs. 25 and 36.
 80.38 Set temp. $\frac{1}{4}$ sec. cor.
 Intersect E. bdy. of Tp. 12 lks. N. of the cor. of secs. 25 and 36, which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described by the Surveyor General.

7.13 Thence N.89°55'W., on a true line, bet. secs. 25 and 36, over rocky, mountainous land, through scattering oak and cedar timber. Asc. 270 ft., over NE. slope.
 Top of peak, on ridge bearing NW. and SE. Thence along S. slope.
 17.60 Top of spur, projects S. Desc. 340 ft., over rocky SW. slope.
 39.95 Ravine, 10 lks. wide at bottom, course S. Asc.
 40.19 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock and 10 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\frac{1}{4} \frac{S25}{S36} = 1917$$

from which
 An oak, 8 ins. diam., bears N.30°E., 12 lks. dist., marked $\frac{1}{4}$ S25 BT.
 An oak, 8 ins. diam., bears S.31°E., 210 lks. dist., marked $\frac{1}{4}$ S36 BT.
 Asc. 200 ft., over rocky E. slope.
 47.40 Top of spur, projects S. Desc. 200 ft., over W. slope.
 57.80 Ravine, 25 lks. wide at bottom, course S. Asc. 145 ft.
 64.35 Top of spur, projects S. Desc. 110 ft.
 69.45 Ravine, 20 lks. wide at bottom, course S. Asc. 120 ft.
 77.50 Top of short spur, projecting S. Desc. 20 ft.
 80.38 The cor. of secs. 25, 26, 35 and 36.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, cedar and oak.
 Undergrowth, scrub oak.

N.0°08'W., bet. secs. 25 and 26, over steeply sloping, rocky, mountainous land, through scattering oak, cedar and pinyon timber and dense undergrowth of scrub oak, mahogany and manzanita. Asc. 150 ft.
 4.50 Top of rocky spur, projects S.20°W. Desc. 30 ft.
 11.30 Bottom of gulch, 50 lks. wide at bottom, course S.20°W. Asc. along bottom of gulch, 480 ft.
 30.00 Leave bottom of gulch, comes from NW. Asc. 500 ft., on rocky SW. slope, on E. side of gulch.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and 11 ins. in a mound of stone,

Chains

for 1/4 sec. cor., marked on brass cap

S26 | S25

1917

from which

A white oak, bears S.75°W., 48 lks. dist., marked 1/4 S26 BT.

No other bearing tree available. Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Asc. 340 ft., over cliffs.

46.70 Top of high rocky ridge, bears E. and W. Desc. 800 ft., over steep, rocky cliffs, on N. side of mountain.

68.00 Rocky gulch, 100 lks. wide, course NE. Asc. 40 ft.

72.20 Top of rocky spur, projects E. Desc. 320 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked on brass cap

T12S | R22E
S23 | S24

S26 | S25

1917

from which

An oak, 6 ins. diam., bears N.7°E., 31 lks. dist., marked T12S R22E S24 BT.

An oak, 6 ins. diam., bears S.35°E., 43 lks. dist., marked T12S R22E S25 BT.

An oak, 8 ins. diam., bears S.71°30'W., 48 lks. dist., marked T12S R22E S26 BT.

An oak, 8 ins. diam., bears N.73°W., 52 lks. dist., marked T12S R22E S23 BT.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, oak, cedar, juniper, pinyon and fir.

Undergrowth, manzanita, mahogany and scrub oak.

40.00 S.89°55'E., on a random line, bet. secs. 24 and 25.

80.42 Set temp. 1/4 sec. cor.

Intersect E. bdy. of Tp. 14 lks. N. of the cor. of secs. 24 and 25, which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described by the Surveyor General.

Thence N.89°49'W., on a true line, bet. secs. 24 and 25, over rocky, mountainous land, through scattering oak, and cedar timber, and dense scrub oak and manzanita undergrowth.

2.00 Ravine, 50 lks. wide at bottom, course NE. Asc. 425 ft., over SE. slope.

26.68 Top of ridge, bears NE. and S. Desc. 30 ft.

29.97 Ravine, 25 lks. wide, at bottom, course N.. Asc. on E. side of spur.

40.21 Set an iron post, 3 ft. long, 1 in. diam., 16 ins. in the ground to solid rock and 10 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap

S24
1/4 -----
S25
1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

45.18 Top of spur, projects N.25°E.; 360 ft. above ravine. Desc. 60 ft.

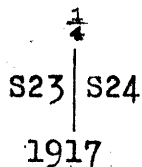
54.90 Ravine, 15 lks. wide at bottom, course N. Asc. 125 ft.

Chains

- 60.32 Top of spur, projects N. Desc. 230 ft.
- 77.40 Rocky gulch, 100 lks. wide at bottom, course NE. Asc. 30 ft.
- 80.42 The cor. of secs. 23, 24, 25 and 26.

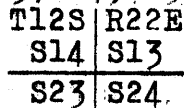
Land, mountainous.
Soil, rocky; 4th rate.
Timber, cedar and oak.
Undergrowth, mahogany, scrub oak and manzanita.

- N.0°08'W., bet. secs. 23 and 24, over steeply sloping, rocky, mountainous land, through scattering timber and dense undergrowth. Desc. abruptly 60 ft.
- .90 Oak Grove Canyon, 50 lks. wide at bottom, course E. Asc. 80 ft.
- 5.00 Top of spur, projects E. Desc. 100 ft.
- 8.80 Rocky gulch, 50 lks. wide at bottom, course SE. Asc. abruptly, 500 ft., over ledges and slide rock.
- 20.20 Top of rocky spur, projects SE. Desc. 320 ft.
- 27.10 Bottom of ravine, 30 lks wide at bottom, course E., heads 10 chs. W. Asc. 60 ft.
- 32.75 Top of spur, projects E. Desc. 200 ft.
- 39.40 North fork of Oak Grove Canyon, 30 lks. wide at bottom, course SE. Asc. 50 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap



from which
An oak, 18 ins. diam., bears N.45°E., 6 lks. dist., marked $\frac{1}{4}$ S24 BT.
A pine, 6 ins. diam., bears N.84°W., 22 lks. dist., marked $\frac{1}{4}$ S23 BT.

- Asc. 770 ft., over rocky ledges and slide rock, on S. slope.
- 67.95 Top of ridge, bears NW. and E. Desc. 200 ft.
- 79.80 Head of ravine, 20 lks. wide at bottom, course E.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and 12 ins. in a mound of stone, for cor. of secs. 13, 14, 23 and 24, marked on brass cap



1917

from which
An oak, 8 ins. diam., bears S.45°W., 2 lks. dist., marked T12S R22E S23 BT.
No other bearing trees available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
Timber, cedar, oak, pinyon and juniper.
Undergrowth, scrub oak and manzanita.

- S.89°49'E., on a random line, bet. secs. 13 and 24.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.24 Intersect E. bdy. of Tp. 3 lks. S. of the cor. of secs. 13 and 24, which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described by the Surveyor General.

Subdivision of T. 12 S., R. 22 E.

Chains

Thence N.89°50'W., on a true line, bet. secs. 13 and 24, over rocky, mountainous land, through scattering timber and dense undergrowth. Desc. 140 ft.

7.24

Bed of ravine, 20 lks. wide at bottom, course NW.

11.74

Bed of ravine, 50 lks. wide at bottom, course N.

20.36

Bed of ravine, 200 lks. wide at bottom, course NE. Asc. 780 ft., over rocky SE. slope.

40.12

Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and 8 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap

S13

1/4

S24

1917

from which

An oak, 12 ins. diam., bears S.75 1/2°E., 122 lks. dist., marked 1/4 S24 BT.

An oak, 10 ins. diam., bears N.83 1/2°W., 53 lks. dist., marked 1/4 S13 BT.

Asc. 330 ft.

55.80

Top of rocky spur, projects S. Desc. 190 ft., over rocky cliffs and ledges, on SW. slope.

65.70

Rocky gulch, 50 lks. wide at bottom, course SE. Asc. 500 ft., along spur.

80.24

The cor. of secs. 13, 14, 23 and 24.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar and oak.

Undergrowth, scrub oak.

N.0°08'W., bet. secs. 13 and 14, over rocky, mountainous land, through scattering timber and underbrush. Asc. abruptly, 130 ft.

2.36

Top of spur, projects E. Desc. 126 ft.

7.00

Rocky ravine, 25 lks. wide at bottom, course S.75°E. Asc. 350 ft., over rocky cliffs and ledges, on S. slope.

23.20

Summit of ascent, at junction of spurs projecting E. and SE. Desc. 100 ft.

29.00

Perpendicular red cliffs, 250 ft. high, facing E., bear W., 100 lks. dist.

Summit of high, rocky peak bears W., 10 chs. dist.

Asc. 100 ft.

37.60

Top of rocky spur, projects E. Desc. 50 ft.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

1/4

S14 | S13

1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

An oak, 10 ins. diam., bears N.62 1/2°E., 39 lks. dist., marked 1/4 S13 BT.

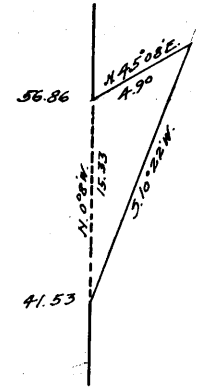
No other bearing tree available.

Asc. 80 ft.

41.53

Top of rocky cliffs, facing NE.

To obtain distance across ground so broken as to make accurate chaining impracticable, I leave a flag at this point and establish a station on line N.0°08'W., from which I measure a base N.45°08'E., 4.90 chs., to a point whence flag bears S.10°22'W.; which gives for the distance 4.90 x sin 34°46' + sin 10°30', or 4.90 x .57024 + .18224, or 15.33 chs., making total distance 41.53 + 15.33, or 56.86 chs.



Chains

- 56.86 Top of ridge, bears E. and W., 250 ft. below cliff. Desc. 100 ft.
- 61.05 Rocky canyon, 50 lks. wide at bottom, course NE. Desc. along E. slope, 40 ft.
- 67.90 Top of cliff, 150 ft. high, facing E. Desc. 215 ft.
- 74.32 Head of rocky ravine, 25 lks. wide at bottom, course E. Asc. 100 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked on brass cap

T12S	R22E
S11	S12
S14	S13

1917

from which

- A juniper, 12 ins. diam., bears N.30°E., 53 lks. dist. marked T12S R22E S12 BT.
- An oak, 8 ins. diam., bears S.81½°E., 42 lks. dist., marked T12S R22E S13 BT.
- An oak, 8 ins. diam., bears S.20°W., 116 lks. dist., marked T12S R22E S14 BT.
- An oak, 10 ins. diam., bears N.58°W., 80 lks. dist., marked T12S R22E S11 BT.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, cedar and oak.
 Undergrowth, scrub oak and manzanita.

- 40.00 S.89°50'E., on a random line, bet. secs. 12 and 13. Set temp. ¼ sec. cor.
- 80.12 Intersect E. bdy. of Tp. at the cor. of secs. 12 and 13, which is an iron post, 3 ins. diam., firmly set, marked and witnessed as described by the Surveyor General.

Thence N.89°50'W., on a true line, bet. secs. 12 and 13, over rocky, mountainous land, through scattering timber and underbrush. Asc. 560 ft., over E. slope.

- 40.06 Set an iron post, 3 ft. long, 1 in. diam., 15 ins. in the ground to solid rock and 11 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap

S12

¼

S13

1917

from which

- An oak, 8 ins. diam., bears S.19°W., 94 lks. dist., marked ¼ S13 BT.
- An oak, 6 ins. diam., bears N.19°W., 11 lks. dist., marked ¼ S12 BT.

- 60.00 Cor. is on top of spur, projecting NE. Desc. gradually.
- 48.12 Ravine, 15 lks. wide at bottom, course NE. Asc. 500 ft., over E. slope.

- 61.50 Top of spur, projects NE. Desc. 200 ft.
- 67.80 Bottom of canyon, 100 lks. wide across bed, course NE. Asc. 525 ft., over rocky E. slope.

- 79.50 Top of spur, projects SE. Desc. gradually.
- 80.12 The cor. of secs. 11, 12, 13 and 14.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, cedar and oak.
 Undergrowth, scrub oak.

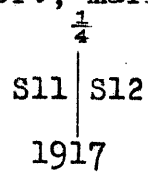
Chains

N.0°08'W., bet. secs. 11 and 12,
 over rocky, mountainous land, through scattering timber
 and dense underbrush. Asc. slightly.

.75 Top of spur-ridge, projects N.25°E. Desc. 900 ft., over
 steep, rocky NW. slope.

29.40 Bottom of rocky canyon, 150 lks. wide at bottom, course NE.
 Desc. 100 ft., along NE. slope, on W. side of canyon.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for 1/4 sec. cor., marked on brass cap



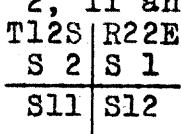
from which
 An oak, 10 ins. diam., bears S.41°E., 25 lks. dist.,
 marked 1/4 S12 BT.
 A juniper, 14 ins. diam., bears N.25°W., 139 lks. dist.,
 marked 1/4 S11 BT.

Desc. 350 ft.

61.40 Rose Canyon, 150 lks. wide at bottom, course E. Asc.
 375 ft., over rocky S. slope.

78.75 Top of ridge, bears N.70°E. and W. Desc. 40 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the
 ground to solid rock and 14 ins. in a mound of stone,
 for cor. of secs. 1, 2, 11 and 12, marked on brass cap



1917

from which
 An oak, 10 ins. diam., bears N.74°E., 157 lks. dist.,
 marked T12S R22E S1 BT.
 A white oak, 12 ins. diam., bears S.63°E., 217 lks. dist.,
 marked T12S R22E S12 BT.
 A white oak, 14 ins. diam., bears S.79°W., 52 lks. dist.,
 marked T12S R22E S11 BT.
 A white oak, 10 ins. diam., bears N.55°45'W., 98 lks.
 dist., marked T12S R22E S2 BT.

Land, mountainous, with steep, rough slopes.
 Soil, rocky; 4th rate.
 Timber, scrub cedar, pinyon, juniper and oak.
 Undergrowth, scrub oak, mahogany and manzanita.

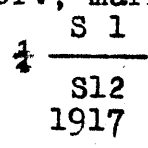
S.89°50'E., on a random line, bet. secs. 1 and 12.
 40.00 Set temp. 1/4 sec. cor.

80.20 Intersect E. bdy. of Tp. 25 lks. S. of the cor. of secs.
 1 and 12, which is an iron post, 3 ins. diam., firmly
 set, marked and witnessed as described by the Surveyor
 General.

Thence S.89°59'W., on a true line, bet. secs. 1 and 12,
 over level valley land.

18:00 Leave level land. Edge bears NE. and SW. Asc. 115 ft.,
 along S. side of mountain.

40.10 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for 1/4 sec. cor., marked on brass cap



from which
 An oak, 10 ins. diam., bears S.51 1/2°W., 171 lks. dist.,
 marked 1/4 S12 BT.
 An oak, 8 ins. diam., bears N.74°W., 182 lks. dist.,
 marked 1/4 S1 BT.

Chains	
40.70	Ravine, 10 lks. wide at bottom, course SE. Asc. along SE. slope of mountain.
42.70	Gable's sheep corral bears S., 9.50 chs. dist.
65.80	Top of ridge, in low saddle, bears N.70°E. and S.70°W., 190 ft. above bottom of ravine. Continue to ascend along NE. slope of mountain, 225 ft.
80.20	The cor. of secs. 1, 2, 11 and 12.
<p>Land, E. 18 chs. level; remainder of line mountainous. Soil, 2nd rate gravelly loam on E. 18 chs; rocky, 4th rate on remainder of line. Timber, scattering oak on mountainous land. Undergrowth, scattering scrub oak on mountainous land.</p>	
<p>N.0°08'W., on a random line, bet. secs. 1 and 2.</p>	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.41	Intersect N. bdy. of Tp. 9 lks. E. of the cor. of secs. 1, 2, 35 and 36, reestablished as hereinbefore described.
<p>Thence S.0°12'E., on a true line, bet. secs. 1 and 2, over level valley land, along barbed wire fence.</p>	
8.90	Ft. of slope of rocky butte, bears E. and W. Asc. 135 ft.
14.40	Top of butte, bears E. and W. Desc. 180 ft.
26.40	Ft. of slope of butte, bears NW. and NE. Thence across flat valley land.
31.40	Wash, 25 lks. wide, 3 ft. deep, course SE.
36.10	Wash, 75 lks. wide, 4 ft. deep, course E.
41.41	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
<p>$\frac{1}{4}$ S2 S1 1917</p>	
<p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of cor.</p>	
52.60	Wash, 10 lks. wide, 4 ft. deep, course NE. Leave valley land, bears NE. and SW. Asc. over rocky N. slope, over mountainous land.
74.90	S. end of barbed wire fence.
81.41	The cor. of secs. 1, 2, 11 and 12.
<p>Land, from N. to S., 8.90 chs. level; 17.50 chs. mountainous. 26.20 chs. level, and 28.81 chs. mountainous. Soil, 1st rate sandy loam on level land; rocky, 4th rate, on mountainous land. Timber, scattering juniper on S. half of line.</p>	
<p>From the cor. of secs. 2, 3, 34 and 35, on S. bdy. of Tp., described in Book F,</p>	
<p>N.0°08'W., bet. secs. 34 and 35, over rocky, mountainous land, through scattering timber and dense undergrowth. Asc. 136 ft., on steep slope, along W. side of Davis Canyon.</p>	
6.25	Top of rocky spur, projecting E. from side of mountain. Desc. 75 ft.
15.50	Davis Canyon, 100 lks. wide, on bottom, course S.20°E. Asc. 450 ft., over rocky S. slope.
30.70	Top of yellow rim-rock cliff, 90 ft. high, bearing E. and W.; faces E. Continue to ascend, 140 ft.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

Chains

$\frac{1}{4}$
 S34 | S35
 1917

- from which
- A juniper, 12 ins. diam., bears S.16°45'E., 71 lks. dist., marked $\frac{1}{4}$ S35 BT.
- A juniper, 5 ins. diam., bears S.13°25'W., 116 lks. dist., marked $\frac{1}{4}$ S34 BT.
- Asc. 50 ft.
- 45.45 Top of main ridge of Winchester Mountains, bears N. and SE. Thence along summit.
- 56.77 Set a flag for triangulation bet. secs. 27 and 34.
- 56.85 Top of ridge bears N.80°W. and S. Desc. abruptly, 630 ft., over steep N. slope, along W. side of rocky ravine draining N.10°E.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 8 ins. in the ground to solid rock and 16 ins. in a mound of stone, for cor. of secs. 26, 27, 34 and 35, marked on brass cap

T12S | R22E
 S27 | S26

 S34 | S35

1917

- from which
- An oak, 10 ins. diam., bears N.25 $\frac{1}{2}$ °E., 130 lks. dist., marked T12S R22E S26 BT.
- A pinyon, 7 ins. diam., bears S.77 $\frac{1}{2}$ °E., 60 lks. dist., marked T12S R22E S36 BT.
- A pinyon, 8 ins. diam., bears N.42°W., 49 lks. dist., marked T12S R22E S27 BT.
- No other bearing tree available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak, juniper, pinyon and madrone.
 Undergrowth, scrub oak and manzanita.

- 40.00 EAST, on a random line, bet. secs. 26 and 35, Set temp. $\frac{1}{4}$ sec. cor.
- 79.92 Intersect N. and S. line 7 lks. S. of the cor. of secs. 25, 26, 35 and 36.
- Thence S.89°57'W., on a true line, bet. secs. 26 and 35, over rocky, mountainous land, through dense timber and undergrowth. Desc. 70 ft.
- 4.20 Bottom of rocky canyon, 75 lks. wide at bottom, course S. Desc. 60 ft.
- 7.00 Bed of Wood Canyon, 200 lks. wide at bottom, course SE. Thence along bottom of canyon, ascending 80 ft.
- 25.00 Leave bottom of canyon; comes from NW. Asc. 200 ft., along N. slope, on S. side of canyon.
- 35.40 Top of spur, projects N. Desc. 15 ft.
- 39.96 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on bed-rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S26

 S35
 1917

- from which
- An oak, 5 ins. diam., bears S.68°W., 58 lks. dist., marked $\frac{1}{4}$ S35 BT.
- A juniper, 12 ins. diam., bears N.50°W., 72 lks. dist., marked $\frac{1}{4}$ S26 BT.
- Desc. 20 ft.

Chains

- 45.20 Bed of rocky ravine, 20 lks. wide at bottom, course N.20°E.
Asc. 510 ft.
- 65.40 Top of spur, projects NE. Desc. 220 ft.
- 73.40 Bed of rocky ravine, 30 lks. wide at bottom, course NE.
Asc. 160 ft.
- 78.40 Top of spur, projecting NE. Desc. 10 ft.
- 79.92 The cor. of secs. 26, 27, 34 and 35.

- Land, mountainous, with steep slopes.
Soil, rocky; 4th rate.
Timber, oak, juniper and madrone.
Undergrowth, scrub oak and manzanita.

- N.0°08'W., bet. secs. 26 and 27,
over rough mountainous land, through scattering timber
and dense undergrowth. Desc. 140 ft.
- 4.90 Rocky gulch, 25 lks. wide at bottom, course NE. Asc. 140
ft.
- 9.85 Top of spur, projects E. Desc. 270 ft.
- 21.80 Bed of Wood Canyon, 100 lks. wide at bottom, course SE.
Asc. 290 ft.
- 32.40 Top of spur, projects SE. Desc. 80 ft.
- 38.22 Bottom of rocky gulch, 30 lks. wide at bottom, course SE.
Asc. 20 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S27 | S26

1917

from which

An oak, 6 ins. diam., bears N.51 $\frac{1}{2}$ °E., 43 lks. dist.,
marked $\frac{1}{4}$ S26 pt.

An oak, 6 ins. diam., bears N.74°W., 57 lks. dist.,
marked $\frac{1}{4}$ S27 pt.

- 43.49 Set flag for triangulation bet. secs. 23 and 26.
Asc. 320 ft., along SE. slope, about 2 chs. W. of and
parallel to rocky gulch, 40 lks. wide at bottom, course
S.
- 70.50 Bed of rocky gulch, 20 lks. wide at bottom, course SE.
Asc. abruptly, 310 ft., over rocky cliffs.
- 80.00 Point for cor. of secs. 22, 23, 26 and 27 falls on top of
sharp, rocky cliff, where it is impracticable to set
a monument. Therefore I establish a witness cor. as
follows:
- 78.73 (1.27 chs. S. of true pt.,)
Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the
ground to solid rock and 12 ins. in a mound of stone,
for witness cor. to the cor. of secs. 22, 23, 26 and 27,
marked on brass cap

W C
T12S | R22E
S22 | S23

S27 | S26

1917

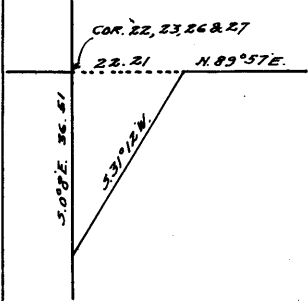
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.

Cor. is 75 ft. below true pt. on cliff.

Land, rough and mountainous.
Soil, rocky; 4th rate.
Timber, oak, juniper and madrone.
Undergrowth, scrub oak and manzanita.

Chains

N. 89° 57' E., on a random line, bet. secs. 23 and 26.



To determine the distance across cliffs and canyons, over which accurate chaining is impracticable, I establish a station on line at a point whence the flag left 36.51 chs. S. 0° 08' E. of the cor. of secs. 22, 23, 26 and 27 bears S. 31° 12' W.; which gives for the distance, $36.51 \times \sin 31^{\circ} 20' + \sin 58^{\circ} 45'$, or $36.51 \times .52002 + .85491$, or 22.21 chs.,

- 22.21 Triangulation point, whence I continue measurement with steel tape.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.90 Intersect N. and S. line 14 lks. S. of the cor. of secs. 23, 24, 25 and 26.

Thence S. 89° 51' W., on a true line, bet. secs. 23 and 26, over rocky, steeply sloping mountainous land, through scattering timber and underbrush. Asc. 200 ft., along S. side of canyon.

- 21.00 Top of spur, projecting N. Desc. 120 ft.
- 39.95 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 12 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} S23 \\ \frac{1}{4} \\ \hline S26 \\ 1917 \end{array}$$

from which

A pinyon, 10 ins. diam., bears S. 3° W., 73 lks. dist., marked $\frac{1}{4}$ S26 BT.

No other bearing tree available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 42.40 Desc. 40 ft.
- 42.40 Bed of rocky ravine, 15 lks. wide at bottom, course NE. Asc. abruptly, 570 ft., on rocky NE. slope.

- 54.22 Top of high, rocky ridge, bears NW. and SE. A natural rock bridge, 30 ft. long, 25 ft. high, bears N., 50 lks. dist.

- 57.69 Desc. 130 ft., over rocky SW. slope. Edge of vertical cliff, 75 ft. high, bearing N. and S.; faces W. Desc. abruptly, 475 ft.

- 63.60 Head of rocky canyon, 50 lks. wide at bottom, course SW. Asc. 300 ft.

- 74.00 Top of rocky cliff and spur, projecting S. Desc. 200 ft.

- 78.20 Head of rocky gulch, 30 lks. wide at bottom, course S. Asc. abruptly, 120 ft.

- 79.90 The point for cor. of secs. 22, 23, 26 and 27.

Land, mountainous, with numerous cliffs.

Soil, rocky; 4thrate. Sandstone and conglomerate formation.

Timber, juniper, oak and pinyon.

Undergrowth, dense scrub oak and manzanita.

From pt. for cor. of secs. 22, 23, 26 and 27,

N. 0° 08' W., bet. secs. 22 and 23,

over steeply sloping, rocky, mountainous land, through scattering timber and dense undergrowth. Asc. 240 ft., over rocky SE. slope.

- 10.56 Top of rocky ridge, bears NE. and SW. Desc. abruptly, 820 ft., over rocky cliffs, on NW. slope, to Riley Canyon.

- 20.00 Spur, projects N. 10° W. Thence along E. side of same.

- 38.24 Top of perpendicular sandstone cliff, 100 ft. high, facing N. Desc. over cliff.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

Chains

$\frac{1}{4}$
 S22 | S23
 1917

- from which
 An oak, 8 ins. diam., bears S.30°E., 25 lks. dist., marked $\frac{1}{4}$ S23 BT.
 An oak, 8 ins. diam., bears N.67°W., 9 lks. dist., marked $\frac{1}{4}$ S22 BT.
- 41.81 Bed of E. branch of Rilay Canyon, 100 lks. wide at bottom, course NW. Asc. 110 ft., over S. slope.
 - 49.04 Top of rocky spur, projects W.
Set a flag for triangulation bet. secs. 15 and 22.
Desc. 165 ft., over N. slope.
 - 52.00 Bed of rocky canyon, 2 chs. wide at bottom, course NW.
Asc. 85 ft.
 - 59.00 Top of rocky spur, projects W. Desc. 205 ft.
 - 63.60 Bed of rocky canyon, 2 chs. wide at bottom, course W.
Asc. 420 ft.
 - 76.90 Top of rocky spur, projecting W. Desc. 20 ft.
 - 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and 12 ins. in a mound of stone, for cor. of secs. 14, 15, 22 and 23, marked on brass cap

T12S | R22E
 S15 | S14

 S22 | S23
 1917

from which
 A juniper, 10 ins. diam., bears S.89 $\frac{1}{2}$ °E., 128 lks. dist., marked T12S R22E S14 BT.
 No other bearing trees available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rough mountainous.
 Soil, rocky; 4th rate.
 Timber, juniper, pinyon and oak, with some fir and maple in Rilay Canyon.
 Undergrowth, scrub oak and manzanita.

- 40.00 N.89°51'E., on a random line, bet. secs. 14 and 23.
Set temp. $\frac{1}{4}$ sec. cor.
 - 80.12 Intersect N. and S. line 5 lks. N. of the cor. of secs. 13, 14, 23 and 24.
- Thence S.89°53'W., on a true line, bet. secs. 14 and 23, over steeply sloping, rocky, mountainous land, through scattering timber and dense underbrush. Asc. 640 ft. over E. slope.
- 16.08 Top of rocky ridge, bears NW. and SE. Desc. 40 ft.
 - 20.40 Head of ravine, 3 chs. wide at bottom, course S. Asc. 70 ft.
 - 27.60 Top of rocky cliffs, on ridge bearing NE. and S. Branch bears N.80°W. Desc. 240 ft., along S. side of ridge.
 - 38.30 Head of ravine, 50 lks. wide at bottom, in saddle, course SE. Asc. 20 ft.
 - 40.06 Set an iron post, 3 ft. long, 1 in. diam., 8 ins. in the ground to solid rock and 18 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S14

 S23
 1917

from which
 A cedar, 6 ins. diam., bears N.82°E., 38 lks. dist., marked $\frac{1}{4}$ S14 BT.

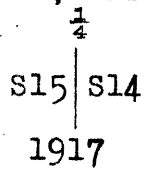
Subdivision of T. 12 S., R. 22 E.

Chains

- An oak, 8 ins. diam., bears S.56°W., 120 lks. dist., marked $\frac{1}{4}$ S23 BT.
- Asc. 50 ft.
- 41.60 Junction of high ridges, bearing N., S., and N.70°E. Desc. 325 ft.
- 55.80 Rocky ravine, 30 lks. wide at bottom, course NW. Asc. 60 ft.
- 58.80 Top of spur, projecting N. Asc. 30 ft. along N. slope.
- 72.60 Top of sharp, rocky ridge, bears NW. and SE. Desc. 220 ft.
- 80.12 The cor. of secs. 14, 15, 22 and 23.

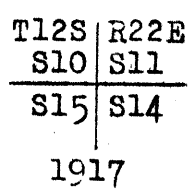
Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering juniper, pinyon and oak.
 Undergrowth, dense scrub oak, manzanita and mahogany.

- N.0°08'W., bet. secs. 14 and 15, over rocky, mountainous land, through scattering timber and dense underbrush. Desc. 20 ft.
- 1.00 Head of ravine, 20 lks. wide at bottom, course W. Asc. 90 ft.
- 7.00 Spur, projecting W. Desc. 60 ft.
- 13.60 Top of ridge, bears NW. and SE. Desc. 250 ft., over rocky NE. slope.
- 24.70 Top of perpendicular sandstone cliffs, 150 ft. high, facing N., bears E. and W. Desc. abruptly, 540 ft.
- 35.56 Bed of rocky ravine, 50 lks. wide at bottom, course NE. Continue descent, 130 ft., along NE. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



from which
 A pinyon, 14 ins. diam., bears N.42°E., 55 lks. dist., marked $\frac{1}{4}$ S14 BT.
 An oak, 6 ins. diam., bears N.14°W., 28 lks. dist., marked $\frac{1}{4}$ S15 BT.
 Desc. 210 ft.

- 48.50 Bed of canyon, 100 lks. wide at bottom, course NW. Asc. 190 ft., over SW. slope.
- 64.80 Top of rocky cliffs, 50 ft. high, on ridge, bearing NW. and SE. Desc. 450 ft., over rocky NE. slope.
- 77.06 Bed of ravine, 75 lks. wide at bottom, course NW. Asc. 20 ft.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked on brass cap



from which
 An oak, 6 ins. diam., bears S.10 $\frac{1}{2}$ °E., 67 lks. dist., marked T12S R22E S14 BT.
 An oak, 6 ins. diam., bears S.45°W., 25 lks. dist., marked T12S R22E S15 BT.
 No other bearing trees available. Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering fir, pinyon, oak and juniper.
 Undergrowth, scrub oak, manzanita and mahogany.

Chains

40.00 N.89°53'E., on a random line, bet. secs. 11 and 14.
Set temp. $\frac{1}{4}$ sec. cor.
80.06 Intersect N. and S. line 2 lks. N. of the cor. of secs.
11, 12, 13 and 14.

Thence S.89°54'W., on a true line, bet. secs. 11 and 14,
over rocky, mountainous land, through scattering timber
and dense undergrowth. Asc. 80 ft., along summit of
ridge, bearing E. and W.

11.30 Top of spur, projects N. Desc. 340 ft., over W. slope.
20.90 Rocky ravine, 25 lks. wide at bottom, course N. Asc.
115 ft.

29.40 Top of ridge, bears N.30°W. and S.30°E. Desc. 360 ft.
40.03 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the
ground to solid rock and 8 ins. in a mound of stone,
for $\frac{1}{4}$ sec. cor., marked on brass cap

S11

$\frac{1}{4}$

S14

1917

from which

An oak, 8 ins. diam., bears S.3°W., 54 lks. dist.,
marked $\frac{1}{4}$ S14 BT.

An oak, 18 ins. diam., bears N.12 $\frac{1}{2}$ °W., 76 lks. dist.,
marked $\frac{1}{4}$ S11 BT.

Desc. slightly.

41.80 Bed of ravine, 20 lks. wide at bottom, course NW. Asc.
350 ft.

53.70 Top of ridge, bears NW. and SE. Desc. 690 ft., over SW.
slope.

80.06 The cor. of secs. 10, 11, 14 and 15.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak, juniper and pinyon.

Undergrowth, scrub oak, manzanita and mahogany.

N.0°08'W., bet. secs. 10 and 11,
over rocky mountainous land, through scattering timber
and oak undergrowth. Asc. 285 ft.

15.10 Top of spur, projects W. Desc. 155 ft.

20.14 Bed of rocky ravine, 30 lks. wide at bottom, course W.
Asc. 200 ft.

30.80 Top of spur, projects W. Desc. 270 ft., over N. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$

S10 | S11

1917

from which

An oak, 6 ins. diam., bears S.42°45'E., 66 lks. dist.,
marked $\frac{1}{4}$ S11 BT.

An oak, 6 ins. diam., bears S.52°W., 16 lks. dist.,
marked $\frac{1}{4}$ S10 BT.

Desc. 100 ft.

51.50 Wash, 25 lks. wide, 4 ft. deep, course W. Ft. of mountain
slope bears E. and W. Thence over rolling land.

56.00 Top of round rocky hill, 100 ft. high, bears W., 7 chs.
dist.

70.00 Enter level valley, bears E. and W.

76.40 Wash, 50 lks. wide, 4 ft. deep, course W. Leave valley,
bears E. and W. Asc. 20 ft., over foothill at base of
mountain.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the
ground, for cor. of secs. 2, 3, 10 and 11, marked on
brass cap

Subdivision of T. 12 S., R. 22 E.

Chains

T12S	R22E
S3	S2
S10	S11

1917

from which

- An oak, 10 ins. diam., bears N.63°50'E., 320 lks. dist., marked T12S R22E S2 BT.
- An oak, 14 ins. diam., bears S.17½°E., 205 lks. dist., marked T12S R22E S11 BT.
- An oak, 18 ins. diam., bears N.31½°W., 310 lks. dist., marked T12S R22E S3 BT.
- An oak, 14 ins. diam., bears S.28½°W., 228 lks. dist., marked T12S R22E S10 BT.

Land, S. 51½ chs. mountainous; N. part, level and hilly.
 Soil, rocky; 4th rate.
 Timber, scattering oak and juniper.
 Undergrowth, scrub oak.

- 40.00 N.89°54'E., on a random line, bet. secs. 2 and 11.
- 80.20 Set temp. ¼ sec. cor.
- Intersect N. and S. line 42 lks. N. of the cor. of secs. 1, 2, 11 and 12.
- 19.60 Thence N.89°48'W., on a true line, bet. secs. 2 and 11, over rocky mountainous land, through scattering timber and underbrush. Asc. 120 ft., on N. side of ridge.
- 25.80 Top of spur, projects N. Desc. 100 ft., along N. side of ridge.
- 33.50 Head of ravine, 10 lks. wide at bottom, course N. Asc. 60 ft.
- 40.00 Top of ridge, bears N.85°W. and S.85°E. Desc. 150 ft.
- 40.10 Bed of ravine, 10 lks. wide at bottom, course S.
- Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone, on solid rock, for ¼ sec. cor., marked on brass cap

¼	S 2
	S11
	1917

from which

- An oak, 8 ins. diam., bears S.24°E., 35 lks. dist., marked ¼ S11 BT.
- An oak, 10 ins. diam., bears N.59½°W., 52 lks. dist., marked ¼ S2 BT.
- Desc. 70 ft., along S. slope.
- 49.40 Head of ravine, 10 lks. wide, at bottom, course SE. Asc. 180 ft.
- 54.10 Top of ridge, bears N. and S. Desc. 330 ft., over rocky SW. slope.
- 80.20 The cor. of secs. 2, 3, 10 and 11.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak, pinyon and juniper.
 Undergrowth, scrub oak and manzanita.

- 40.00 N.0°08'W., on a random line, bet. secs. 2 and 3.
- 80.47 Set temp. ¼ sec. cor.
- Intersect N. bdy. of Tp. 9 lks. E. of the cor. of secs. 2, 3, 34 and 35, reestablished as hereinbefore described.
- Thence S.0°12'E., on a true line, bet. secs. 2 and 3, over level valley land, through scattering timber and undergrowth.

Chains

- .01 Fence, bears E. and W.
 .17 Road, bears E. and W.
 4.90 Road, bears NW. and SE.
 19.97 NE. cor. of fence running S. and W. Thence along fence.
 22.67 Rilay wash, 50 lks. wide, 5 ft. deep, course NE.
 25.67 Road, bears NE. and SW.
 40.47 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap.

$\frac{1}{4}$
 S3 | S2

1917

- from which
 An oak, 10 ins. diam., bears S. $9\frac{1}{2}^{\circ}$ E., 42 lks. dist., marked $\frac{1}{4}$ S2 BT.
 An oak, 10 ins. diam., bears N. 71° W., 77 lks. dist., marked $\frac{1}{4}$ S3 BT.
 43.47 S. end of fence.
 Leave level land, and asc. 425 ft. on slope of mountain; foot of slope bears NE. and SW.
 59.06 Top of spur, projecting W. Desc. 200 ft.
 69.13 Top of cliff, facing S., bears E. and W., 40 ft. high. Desc. 210 ft., over SW. slope.
 80.47 The cor. of secs. 2, 3, 10 and 11.

Land, N. $43\frac{1}{2}$ chs. level; remainder mountainous.
 Soil, N. 20 chs. sandy loam, 2nd rate; remainder rocky; 4th rate.
 Timber and undergrowth of oak.

From the cor. of secs. 3, 4, 33 and 34, on S. bdy. of Tp. described in Book F,

- N. $0^{\circ}09'$ W., bet. secs. 33 and 34, over rocky, mountainous land, through scattering timber and undergrowth. Asc. 150 ft.
 7.70 Top of spur, projecting SW. Desc. 40 ft.
 12.00 Head of ravine, 20 lks. wide at bottom, course SW. Asc. 220 ft., over SW. slope.
 22.70 Top of ridge, bears N. and S. 10° E. Asc. along ridge.
 25.00 Spur projects SW. Continue ascent, along ridge.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 5 ins. in the ground to solid rock and 21 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap.

$\frac{1}{4}$
 S33 | S34

1917

- from which
 A pinyon, 10 ins. diam., bears EAST, 71 lks. dist., marked $\frac{1}{4}$ S34 BT.
 A pinyon, 8 ins. diam., bears S. 74° W., 44 lks. dist., marked $\frac{1}{4}$ S33 BT.
 Continue ascent, 130 ft., along W. side of ridge.
 51.66 Top of spur, projecting W. Desc. 40 ft.
 59.00 Head of ravine, 30 lks. wide at bottom, course S. 75° W. Asc. 90 ft.
 61.20 Top of spur, projecting W. Desc. abruptly, 360 ft.
 71.00 Bed of canyon, 100 lks. wide at bottom, course W. Asc. 360 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in a mound of stone on solid rock, for cor. of secs. 27, 28, 33 and 34, marked on brass cap.

Chains

T12S	R22E
S28	S27
S33	S34

1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

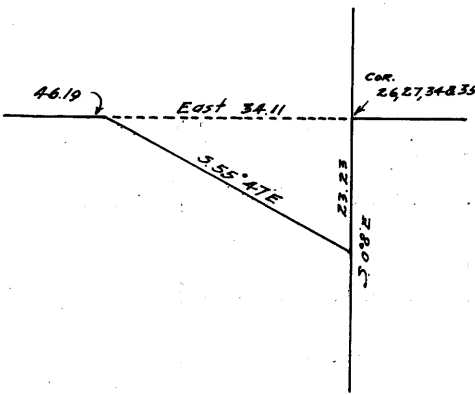
Cor. is on rocky spur projecting SW.
Land, rough and mountainous.
Soil, rocky; 4th rate.
Timber, scattering cedar, juniper, pinyon and oak.
Undergrowth, scrub oak and manzanita.

EAST, on a random line, bet. secs. 27 and 34.
(Leaving flag for triangulation bet. secs. 27 and 28)

40.00
46.19

Set temp. ¼ sec. cor.
Determine the distance across steep, rocky slope of moun-

tain, over which accurate chain-
ing is impracticable, as follows:
From this station, the cor. of
secs. 26, 27, 34 and 35, which
is visible, bears EAST., and the
flag on line bet. secs. 34 and 35,
23.23 chs. S.0°08'E. of the sec.
cor., bears S.55°47'E.; which
gives for the distance,
23.23 x sin 55°39' + sin 34°13',
or 23.23 x .82561 x .56232,
or 34.11 chs.; making the total
distance 46.19 + 34.11, or 80.30
chs.



80.30

Intersect N. and S. line at the cor. of secs. 26, 27, 34 and 35.

Thence WEST, on a true line, bet. secs. 27 and 34,
over rough, mountainous land, through scattering timber
and dense undergrowth. Desc. 120 ft.

5.00
34.11
40.15

Bed of rocky gulch, 25 lks. wide at bottom, course NE.
Asc. abruptly, 800 ft., over steep E. slope of mountain.
Top of high ridge, bears N.25°W. and S.25°E. Desc. 50 ft.
Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the
ground to solid rock and 14 ins. in a mound of stone,
for ¼ sec. cor., marked on brass cap

¼	S27
	S34
	1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor;

49.20
53.28
54.80
80.30

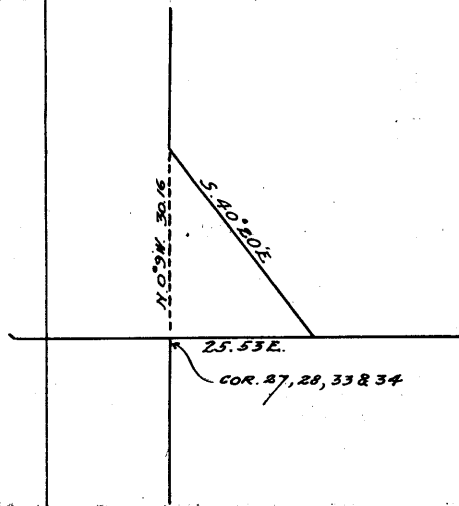
Desc. 30 ft.
Head of ravine, 30 lks. wide at bottom, course SE. Asc.
100 ft.
Top of spur, projecting SE.
Desc. 680 ft., over rocky W. slope, along S. side of spur.
The cor. of secs. 27, 28, 33 and 34.

Land, rough and mountainous.
Soil, rocky; 4th rate.
Timber, juniper, oak and pinyon.
Undergrowth, scrub oak and manzanita.

9.00

N.0°09'W., bet. secs. 27 and 28,
over mountainous land, through scattering timber and
undergrowth. Desc. 360 ft., over rocky N. slope.
Bed of canyon, 100 lks. wide at bottom, course SW. Asc.
710 ft., over rocky S. slope.

Chains



Accurate chaining being impracticable on account of the steep and rugged nature of the slope, I obtain the distance from the sec. cor. to station established on line on high ridge N. of canyon as follows: From the station mentioned, a flag left on random line bet. secs. 27 and 34, 25.53 chs. E. of the cor. of secs. 27, 28, 33 and 34, bears S.40°20'E.; which gives for the distance,
 $25.53 \times \sin 49^\circ 40' + \sin 40^\circ 11'$,
 or $25.53 \times .76229 + .64524$, or
 30.16 chs.

- 30.16 Top of high ridge, bears NW. and SE. Desc. 220 ft., over N. slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
 $\frac{1}{4}$

S28	S27
-----	-----

 1917
 from which
 A juniper, 24 ins. diam., bears N.51°20'E., 165 lks. dist., marked $\frac{1}{4}$ S27 BT.
 An oak, 10 ins. diam., bears N.80°W., 65 lks. dist., marked $\frac{1}{4}$ S28 BT.
- 48.74 Continue descent, 250 ft.
- 57.93 South branch of Pine Canyon, 100 lks. wide at bottom, course NW. Asc. 200 ft.
- 68.00 Top of spur, projects NW. Desc. 240 ft.
- 80.00 Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 20 ft. along SW. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked on brass cap

T12S	R22E
S21	S22
S28	S27

1917

- from which
- An oak, 6 ins. diam., bears N.35°E., 16 lks. dist., marked T12S R22E S22 BT.
- An oak, 14 ins. diam., bears S.64°E., 101 lks. dist., marked T12S R22E S27 BT.
- A juniper, 10 ins. diam., bears S.72 $\frac{1}{2}$ °W., 55 lks. dist., marked T12S R22E S28 BT.
- A juniper, 14 ins. diam., bears N.56°35'W., 252 lks. dist., marked T12S R22E S21 BT.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, oak, cedar and juniper.
 Undergrowth, scrub oak and manzanita.

- 40.00 EAST, on a random line, bet. secs. 22 and 27.
- 80.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.10 Intersect N. and S. line 25 lks. N. of the point for the cor. of secs. 22, 23, 26 and 27.
- 3.60 Thence N.89°49'W., on a true line, bet. secs. 22 and 27, over rocky, mountainous land, through scattering timber and undergrowth. Desc. abruptly, 150 ft., over cliffs.
- Head of rocky ravine, 20 lks. wide at bottom, course SE. Asc. 210 ft.

Chains

- 12.10 Top of rim-rock, on ridge bearing NE. and SW. Desc. 50 ft., along N. slope.
- 28.00 Head of branch of Rilay Canyon, 50 lks. wide at bottom, course N. Asc. 250 ft.
- 34.90 Top of main ridge of Winchester Mountains, bears N.15°W. and SE. Desc. 75 ft.
- 40.05 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

S22

$\frac{1}{4}$

S27

1917

from which

An oak, 2 ins. diam., bears S.46 $\frac{1}{2}$ °E., 54 lks. dist., marked $\frac{1}{4}$ S27 BT.

An oak, 10 ins. diam., bears N.11°W., 56 lks. dist., marked $\frac{1}{4}$ S22 BT.

Continue descent, 250 ft., over SW. slope.

- 60.40 Branch of Pine Canyon, 50 lks. wide at bottom, course NW. Grove of large pine trees, one to four ft. in diam., in canyon at this point. Asc. 250 ft., over NE. slope.

- 77.00 Top of spur, projecting NW. Desc. 30 ft.

- 80.10 The cor. of secs. 21, 22, 27 and 28.

Land, rough, broken and mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak, juniper and pine.

Undergrowth, scrub oak and manzanita.

N.0°09'W., bet. secs. 21 and 22, over rocky, mountainous land, through scattering timber and dense undergrowth; along SW. side of spur.

- 2.00 Top of spur, projecting NW. Desc. 280 ft.

- 10.40 Branch of Pine Canyon, 50 lks. wide at bottom, course NW. Scattering large pine trees in bottom. Asc. 275 ft.

- 26.57 top of spur, projecting W. Thence along top of spur.

- 32.60 Desc. 135 ft.

- 35.40 Bed of rocky canyon, 30 lks. wide at bottom, course W. Asc. 80 ft., over slide rock, on SW. slope.

- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 30 ins. in a mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$

S21 | S22

1917

from which

An oak, 8 ins. diam., bears N.49 $\frac{1}{2}$ °E., 171 lks. dist., marked $\frac{1}{4}$ S22 BT.

A pinyon, 12 ins. diam., bears N.74°W., 76 lks. dist., marked $\frac{1}{4}$ S21 BT.

Continue ascent, 250 ft.

- 50.24 Top of spur, projecting W. Thence along W. slope.

- 66.25 Top of main ridge of Winchester Mountains, bears NW. and SE. Desc. abruptly, 470 ft.

- 75.38 Top of rocky cliff, 40 ft. high, bears E. and W., facing N. Desc. 65 ft.

- 75.50 W. branch of Rilay Canyon, 20 lks. wide at bottom, course NE. Asc. 25 ft.

- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and 12 ins. in a mound of stone, for cor. of secs. 15, 16, 21 and 22, marked on brass cap

T12S | R22E

S16 | S15

S21 | S22

1917

Chains

from which

An oak, 8 ins. diam., bears N.28°E., 52 lks. dist., marked T12S R22E S15 BT.

An oak, 8 ins. diam., bears S.9°E., 19 lks. dist., marked T12S R22E S22 BT.

An oak, 6 ins. diam., bears S.78°W., 36 lks. dist., marked T12S R22E S21 BT.

A madrone, 36 ins. diam., bears N.28°E., 4 lks. dist., marked T12S R22E S16 BT.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, juniper, oak, pine and madrone.

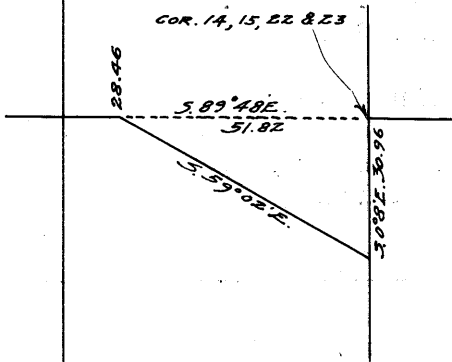
Undergrowth, scrub oak and manzanita.

28.46

S.89°49'E., on a random line, bet. secs. 15 and 22.

I obtain the distance and falling at the cor. of secs.

14, 15, 22 and 23, across precipitous cliffs and deep canyons, over which accurate chaining is impracticable, as follows:



From this station, the cor. of secs.

14, 15, 22 and 23, which is visible,

bears S.89°48'E., and a flag left on

line bet. secs. 22 and 23, 30.96 chs.

S.0°08'E. of said cor. bears S.59°02'E.,

which gives for the distance,

$30.96 \times \sin 58^\circ 54' \div \sin 30^\circ 46'$, or

$30.96 \times .85627 \div .51154$, or 51.82 chs.;

making total distance 28.46 + 51.82,

or 80.28 chs.

80.28

Intersect N. and S. line 2 lks. N. of the cor. of secs. 14, 15, 22 and 23.

Thence N.89°48'W., on a true line, bet. secs. 15 and 22, over rough, mountainous land, through scattering timber and dense undergrowth. Desc. abruptly, 1000 ft., over steep W. slope.

23.78

E. branch of Rilay Canyon, 100 lks. wide at bottom, course N., at junction of two branches from the S. Asc. 130 ft.

34.28

Top of spur, projecting N. Desc. 80 ft.

40.14

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\frac{1}{4} \begin{array}{r} S15 \\ S22 \\ 1917 \end{array}$$

from which

An oak, 8 ins. diam., bears S.10°E., 11 lks. dist., marked $\frac{1}{4}$ S22 BT.

An oak, 6 ins. diam., bears N.63°W., 6 lks. dist., marked $\frac{1}{4}$ S15 BT.

41.74

Bed of rocky ravine, 25 lks. wide at bottom, course NE. Asc. 330 ft.

56.71

Top of spur, projecting NE. Thence along top of same, on NW. slope.

66.28

Top of rocky cliffs, 50 ft. high, facing NW., bears NE. and SW. Desc. abruptly, 190 ft., along NW. slope.

76.78

W. branch of Rilay Canyon, 30 lks. wide at bottom, course NE. Asc. 100 ft.

80.28

The cor. of secs. 15, 16, 21 and 22.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, oak, juniper and madrone.

Undergrowth, scrub oak and manzanita.

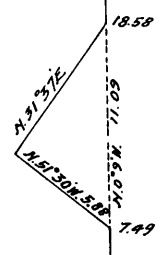
Subdivision of T. 12 S., R. 22 E.

Chains

N.0°09'W., bet. secs. 15 and 16, over mountainous land, through scattering timber and dense undergrowth. Asc. abruptly, 150 ft., over rocky S. slope.

7.49

Top of rocky spur projects N.80°E. To obtain the distance across deep, rocky canyon, 250 ft. deep, course N.70°E., I measure a base 5.88 chs. N.51°30'W., to a point whence a flag placed on line on N. side of canyon bears N.31°37'E.; which gives for the distance, $5.88 \times \sin 96°53' + \sin 31°46'$, or $5.88 \times .99279 + 52646$, or 11.09 chs., making total distance 7.49 + 11.09, or 18.58 chs.



18.58

Triangulation point on N. side of canyon. Asc. abruptly, 240 ft.

23.50

Top of cliffs, 75 ft. high, facing S., bearing E. and W. Asc. 20 ft.

28.47

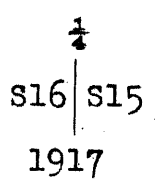
Top of ridge, bearing N.80°E. and S.80°W. Desc. abruptly, 360 ft.

36.94

Bed of canyon, 50 lks. wide, course N.80°E.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap



from which
An oak, 6 ins. diam., bears S.83°E., 15 lks. dist., marked $\frac{1}{4}$ S15 BT.
A pinyon, 6 ins. diam., bears S.4°W., 25 lks. dist., marked $\frac{1}{4}$ S16 BT.

45.00

Top of ridge, bears N.80°E. and S.80°W. Desc. 90 ft.

49.87

Bed of ravine, 20 lks. wide at bottom, course N.80°E. Asc. 140 ft.

60.05

Ridge, bears N.80°E. and S.80°W. Desc. abruptly, 410 ft.

67.12

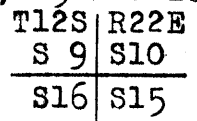
Bed of canyon, 50 lks. wide at bottom, course NE. Asc. 125 ft.

76.10

Top of spur, projecting NE. Desc. 162 ft.

80.00

Set an iron post, 3 ft. long, 2 ins. diam., 14 ins. in the ground to bed-rock and 10 ins. in a mound of stone, for cor. of secs. 9, 10, 15 and 16, marked on brass cap



1917
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.
Soil, rocky; 4th rate.
Timber, oak, juniper and madrone.
Undergrowth, scrub oak, and manzanita.

40.00

S.89°48'E., on a random line, bet. secs. 10 and 15. Set temp. $\frac{1}{4}$ sec. cor.

80.40

Intersect N. and S. line 7 lks. S. of the cor. of secs. 10, 11, 14 and 15.

2.12

Thence N.89°51'W., on a true line, bet; secs. 10 and 15, over mountainous land, through scattering oak, cedar and juniper timber and dense undergrowth. Desc. 70 ft. Bed of ravine, 75 lks. wide at bottom, course NW. Asc. 40 ft.

Chains

- 11.10 Bed of Rilay Canyon, 50 lks. wide at bottom, course N.
- 16.41 Old road,, bears N. and S. Asc. 300 ft.
- 32.46 Top of rocky spur, projecting NE. Desc. 90 ft.
- 36.40 Bed of ravine, 20 lks. wide at bottom, course NE. Asc. 80 ft.
- 40.20 Set an iron post, 3 ft. long, 1 in. diam., 6 ins. in the ground to solid rock and 20 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$ S10
 S15
 1917

from which

An oak, 6 ins. diam., bears S.12°E., 49 lks. dist., marked $\frac{1}{4}$ S15 BT.

An oak, 8 ins. diam., bears N.17°W., 103 lks. dist., marked $\frac{1}{4}$ S10 BT.

Asc. 170 ft.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, oak, cedar and juniper.

Undergrowth, scrub oak and manzanita.

- N.0°09'W., bet. secs. 9 and 10, over rough, mountainous land, through scattering timber and undergrowth. Desc. abruptly, 112 ft.
- 3.08 Bed of canyon, 40 lks. wide at bottom, course E. Asc. abruptly, 384 ft.
- 19.17 Set a flag for triangulation bet. secs. 9 and 16. Continue ascent, 107 ft.
- 23.49 Top of steep cliffs, 50 ft. high, facing SE., bears NE. and SW.
- 27.79 Top of ridge, bears E. and W. Desc. 270 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins in the ground to solid rock and 14 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S 9 | S10
 1917

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Continue descent, 150 ft., along E. side of ridge.

T12S | R22E
 S4 | S3
 S 9 | S10
 1917

from which

BOOK 2013

Subdivision of T. 12 S., R. 22 E.

Chains

A white oak, 12 ins. diam., bears N.61½°E., 180 lks. dist., marked T12S R22E S3 BT.
 A juniper, 24 ins. diam., bears S.9°W., 235 lks. dist. marked T12S R22E S9 BT.
 No other bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, oak, cedar and juniper.
 Undergrowth, scrub oak and manzanita.

40.00
80.36

S.89°51'E., on a random line, bet. secs. 3 and 10.
 Set temp. ¼ sec. cor.
 Intersect N. and S. line 7 lks. S. of the cor. of secs. 2, 3, 10 and 11.

6.54
13.04
17.44
40.18

Thence N.89°54'W., on a true line, bet. secs. 3 and 10, over rough mountainous land, through scattering timber and underbrush. Desc. 20 ft.
 Road, bears N. and S.
 Ravine, 50 lks. wide at bottom, course N.80°W.
 Bed of Rilay Canyon, 50 lks. wide at bottom, course NE. Asc. 320 ft., over low hills.
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on solid rock, for ¼ sec. cor., marked on brass cap

S 3
—
S10
1917

from which
 A white oak, 10 ins. diam., bears N.57½°E., 53 lks. dist., marked ¼ S3 BT.
 A white oak, 10 ins. diam., bears S.31°W., 50 lks. dist., marked ¼ S10 BT.

42.76
45.11
48.14
74.15
80.36

Continue ascent.
 Juana Martinez's house bears N., 39.60 chs. dist.
 Top of peak, at junction of ridges, bearing S.80°W., NE., and SE. Desc. 40 ft.
 Saddle on ridge. Head of two ravines, courses NE. and SE. respectively. Asc. 475 ft., along N. side of ridge.
 Top of ridge, bears N.10°W. and S.10°E. Spur projects NE. from ridge. Top of sharp, rocky peak, bears S., 6 chs. dist. Desc. 200 ft., over W. slope.
 The cor. of secs. 3, 4, 9 and 10.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, oak and juniper.
 Undergrowth, scrub oak and manzanita.

40.00
79.32

N.0°09'W., on a random line, bet. secs. 3 and 4.
 Set temp. ¼ sec. cor.
 Intersect N. bdy. of Tp., 21 lks. W. of the cor. of secs. 3, 4, 33 and 34, reestablished as hereinbefore described.

8.54
9.32
20.62
26.63

Thence SOUTH, on a true line, bet. secs. 3 and 4, over rough, mountainous land, through scattering timber and undergrowth. Desc. 110 ft., along barbed wire fence.
 Wash, 40 lks. wide, course NE. Maria Gonzales' rock house bears W., 5 chs. dist.
 Road, bears NE. and W. Asc.
 Barbed wire fence, bears N. and E. Asc. 120 ft.
 Top of ridge, bears NE. and SW., 275 ft. above wash. Desc. 100 ft.

Chains

31.60 Asc. 40 ft.
 37.15 Top of spur, projecting NE. Desc. 50 ft.
 39.32 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone of bed rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S4 | S3
 1917

from which
 An oak, 10 ins. diam., bears N.11°45'E., 290 lks. dist., marked $\frac{1}{4}$ S3 BT.
 An oak, 10 ins. diam., bears S.74 $\frac{1}{2}$ °W., 140 lks. dist., marked $\frac{1}{4}$ S4 BT.

Desc. 50 ft.
 48.57 Bed of ravine, 20 lks. wide at bottom, course NE. Heads 10 chs. SW. Asc. 570 ft.
 68.52 Top of ridge, at bend, bears W. and SE. Desc. 105 ft.
 79.32 The cor. of secs. 3, 4, 9 and 10.

Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak and juniper.
 Undergrowth, scattering scrub oak.

From the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp. described in Book F,

N.0°09'W., bet. secs. 32 and 33,
 over open, hilly land. Asc. on slope of flat ridge.
 19.30 Cor. of barbed wire fence, bearing S.30°W. and N. Thence along fence.
 29.70 Top of flat ridge, bears NE. and SW., 250 ft. above sec. cor. Desc. 155 ft.
 38.17 Bed of ravine, 25 lks. wide at bottom, course S.55°W. Asc. 45 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S32 | S33
 1917

from which
 An oak, 20 ins. diam., bears S.51°E., 206 lks. dist., marked $\frac{1}{4}$ S33 BT.
 An oak, 14 ins. diam., bears N.55°W., 109 lks. dist., marked $\frac{1}{4}$ S32 BT.

Enter rocky, mountainous land, bears NE. and SW. Asc. over SE. slope.
 50.76 Barbed wire fence, bears N.25°W. and S. Asc. 83 ft.
 58.10 Top of fork in ridges, bearing W., SW. and E., 215 ft. above ft. of slope. Desc. 184 ft.
 68.20 Pole-cat Canyon, 30 lks. wide at bottom, course W. Asc. abruptly, 300 ft., on S. slope.
 80.00 On top of ridge, bearing NE. and S.70°W.,
 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for cor. of secs. 28, 29, 32 and 33, marked on brass cap

T12S | R22E
 S29 | S28
 S32 | S33
 1917

Subdivision of T. 12 S., R. 22 E.

Chains

from which

An oak, 10 ins. diam., bears N.74½°E., 147 lks. dist., marked T12S R22E S28 BT.

An oak, 10 ins. diam., bears S.86°W., 165 lks. dist., marked T12S R22E S32 BT.

A juniper, 20 ins. diam., bears N.51°W., 170 lks. dist., marked T12S R22E S29 BT.

No other bearing tree available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, hilly on S. half and mountainous on remainder of line. Soil, rocky; 4th rate.

Timber, oak and juniper on N. half.

Undergrowth, scrub oak on N. half.

EAST, on a random line, bet. secs. 28 and 33.

40.00 Set temp. ¼ sec. cor.

80.10 Intersect N. and S. line 10 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Thence N.89°56'W., on a true line, bet. secs. 28 and 33, over rough mountainous land, through scattering timber and dense undergrowth. Desc. abruptly, 700 ft., over rocky NW. slope, on side of spur.

25.90 Bed of canyon, 100 lks. wide at bottom, course SW. Asc. 120 ft.

36.53 Top of spur projecting SW. Desc. 230 ft.

40.05 Set an iron pest, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap

¼

S33

1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Desc. 40 ft.

44.10 Bed of ravine, 30 lks. wide, at bottom, course SW. Asc. 235 ft.

59.90 Top of ridge, bearing NE. and SW. Desc. 215 ft.

71.10 Bed of Pole-cat Canyon, 30 lks. wide at bottom, course SW. Asc. 60 ft., over rocky SE. slope.

80.10 The cor. of secs. 28, 29, 32 and 33.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak, juniper and pinyon.

Undergrowth, scrub oak, manzanita.

N.0°09'W., bet. secs. 28 and 29,

over rough mountainous land, through scattering timber and undergrowth. Asc. 320 ft., over rocky SE. slope of high spur.

10.76 Top of spur, projecting SW. Desc. 124 ft.

18.50 Head of ravine, 15 lks. wide at bottom, course SW. Asc. 40 ft.

31.50 Top of ridge, bearing N.75°E. and S.75°W. Desc. abruptly into Bear Canyon, through dense pinyon thicket.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼

S29 | S28

1917

Chains

from which

An oak, 10 ins. diam., bears N.76½°E., 60 lks. dist., marked ¼ S28 BT.

An oak, 12 ins. diam., bears N.36°W., 30 lks. dist., marked ¼ S29 BT.

40.20 Bed of Bear Canyon, 50 lks. wide at bottom, course W., 300 ft. below ridge. Asc. abruptly, 826 ft., over SE. slope.

74.64 Top of Bald Ridge, bears E. and W. A cone shaped peak bears W., 5 chs. dist. Desc. 70 ft., over N. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground and 12 ins. in a mound of stone, for cor. of secs. 20, 21, 28 and 29, marked on brass cap

T12S	R22E
S20	S21
S29	S28

1917

from which

A juniper, 24 ins. diam., bears S.39°E., 161 lks. dist., marked T12S R22E S28 BT.

A juniper, 24 ins. diam., bears S.11½°W., 39 lks. dist., marked T12S R22E S29 BT.

No other bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rough mountainous.
Soil, rocky; 4th rate.
Timber, oak, juniper and pinyon.
Undergrowth, scrub oak and mahogany.

40.00 S.89°56'E., on a random line, bet. secs. 21 and 28. Set temp. ¼ sec. cor.

80.30 Intersect N. and S. line 28 lks. S. of the cor. of secs. 21, 22, 27 and 28.

Thence S.89°52'W., on a true line, bet. secs. 21 and 28, over mountainous land, through scattering timber and undergrowth. Desc. 110 ft., over W. slope.

4.66 Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 140 ft.

7.60 Top of spur projecting N. Desc. 120 ft.

19.16 Bed of Pine Canyon, 30 lks, wide at bottom, course N. Asc. 520 ft.

40.15 Set an iron post, 3 ft. long, 1 in. diam., 14 ins in the ground to solid rock and 12 ins. in a mound of stone, for ¼ sec. cor., marked on brass cap

S21

¼

S28

1917

from which

A juniper, 14 ins. diam., bears N.54°E., 187 lks. dist., marked ¼ S21 BT.

An oak, 12 ins. diam., bears S.53½°E., 210 lks. dist., marked ¼ S28 BT.

40.30 Top of ridge, bears N. and S. Desc. 400 ft.

53.60 Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 90 ft.

60.15 Top of spur, projecting N. Desc. 170 ft.

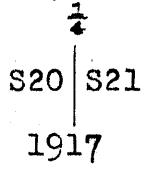
74.30 Head of ravine, 10 lks. wide at bottom, course N. Asc. 90 ft.

80.30 The cor. of secs. 20, 21, 28 and 29.

Land, rough mountainous.
Soil, rocky; 4th rate.
Timber, scattering oak, with some pine trees in Pine Canyon.
Undergrowth, scrub oak.

Chains

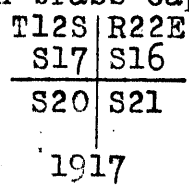
N.0°09'W., bet. secs. 20 and 21,
 over rough mountainous land, through scattering timber
 and underbrush. Desc. into ravine.
 7.20 Top of cliff 50 ft. high, bearing E. and W., facing N.
 13.60 Bed of ravine, 30 lks. wide at bottom, course NW., 420
 ft. below sec. cor. Asc. 280 ft.
 30.37 Top of ridge, bears N. and SE. Thence along ridge.
 36.37 Ridge bears S. and W. Desc. into Pine Canyon, 125 ft.
 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap



from which
 A pinyon, 6 ins. diam., bears S.34 $\frac{1}{2}$ °E., 38 lks. dist.,
 marked $\frac{1}{4}$ S21 BT.
 A juniper, 20 ins. diam., bears S.43°W., 37 lks. dist.,
 marked $\frac{1}{4}$ S20 BT.

Continue descent, 420 ft., into Pine Canyon.
 49.38 Bed of Pine Canyon, 2 chs. wide at bottom, course W., at
 junction with canyon from NE. Asc. 540 ft., over steep
 rocky SW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in a
 mound of stone on bed-rock, for cor. of secs. 16, 17,
 20 and 21, marked on brass cap



from which
 A juniper, 12 ins. diam., bears N.5°E., 110 lks. dist.,
 marked T12S R22E S16 BT.
 An oak, 8 ins. diam., bears S.80°E., 56 lks. dist.,
 marked T12S R22E S21 BT.
 A juniper, 14 ins. diam., bears N.51 $\frac{1}{2}$ °W., 95 lks. dist.,
 marked T12S R22E S17 BT.
 No other bearing tree available. Raise a mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rough mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak and juniper.
 Undergrowth, scrub oak.

40.00 N.89°52'E., on a random line, bet. secs. 16 and 21.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.22 Intersect N. and S. line 7 lks. N. of the cor. of secs.
 15, 16, 21 and 22.

Thence S.89°55'W., on a true line, bet. secs. 16 and 21,
 over mountainous land, through scattering timber and
 dense undergrowth. Asc. 840 ft. over rocky cliffs, on
 steep E. slope of mountain.

21.02 Top of main ridge of Winchester Mountains, bears NW. and
 SE. A spur projects S. from ridge. Desc. 30 ft.

30.00 Head of rocky ravine, 20 lks. wide at bottom, course S.
 Asc. 160 ft.

33.97 Top of ridge, bears N. and S. Desc. into ravine.

35.00 Rilay Peak bears N., 15 chs. dist.

39.00 Bed of rocky ravine, 30 lks. wide at bottom, course SW.,
 170 ft. below ridge. Asc. 30 ft.

40.11 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a
 mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked
 on brass cap

Chains

S16
 $\frac{1}{4}$ ———
 S21
 1917

- and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Asc. 12 ft.
- 49.68 Top of ridge, bears NE. and SW. Desc. abruptly, 485 ft.
- 60.72 Bed of canyon, 100 lks. wide at bottom, course SW. Asc. 200 ft.
- 70.22 Top of ridge, bears NE. and SW. Desc. 212 ft.
- 80.22 The cor. of secs. 16, 17, 20 and 21.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak, juniper and pinyon.
 Undergrowth, scrub oak and manzanita.

- N.0°09'W., bet. secs. 16 and 17, over rough mountainous land, through scattering timber and undergrowth, along W. slope.
- 8.50 Bed of ravine, 15 lks. wide at bottom, course SW. Asc. 40 ft.
- 13.52 Top of ridge, bears NE. and W. Desc. 40 ft.
- 15.30 Bed of ravine, 10 lks. wide at bottom, course SW. Asc. 430 ft., over SW. slope.
- 37.53 Top of ridge, bears NW. and SE. Desc. 50 ft.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
 S17 | S16
 1917

- from which
- A juniper, 30 ins. diam., bears N.67°E., 265 lks. dist., marked $\frac{1}{4}$ S16 BT.
- No other bearing trees available. Raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Desc. abruptly, 610 ft., over NE. slope, into Rockhouse Canyon.
- 57.44 Bed of Rockhouse Canyon, 2 chs. wide at bottom, course NW. Asc. abruptly, 425 ft., over SW. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 10 ins. in the ground to rock and 14 ins. in a mound of stone, for cor. of secs. 8, 9, 16 and 17, marked on brass cap

T12S | R22E
 S8 | S9
 S17 | S16

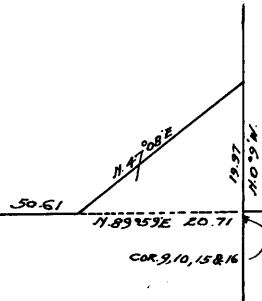
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, oak and juniper.
 Undergrowth, scrub oak and manzanita.

- N.89°55'E., on a random line, bet. secs. 9 and 16.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 59.61 To obtain the distance across rugged slopes and cliffs, to the cor. of secs. 9, 10, 15 and 16, I triangulate as follows: The cor. of secs. 9, 10, 15 and 16 bears

Chains



N.89°59'E., and a flag set on line bet. secs. 9 and 10, 19.97 chs. N.0°09'W. of said cor., bears N.47°08'E., which gives for the distance $19.17 \times \sin 47^\circ 17'$ + $\sin 42^\circ 51'$, or $19.17 \times .73472 \div .68008$, or 20.71 chs., making the total distance 59.61 + 20.71, or 80.32 chs.

80.32 Intersect N. and S. line $2\frac{1}{2}$ lks. N. of the cor. of secs. 9, 10, 15 and 16.

Thence S.89°56'W., on a true line, bet. secs. 9 and 16, over rough mountainous land, through scattering timber and dense undergrowth. Asc. 630 ft., over cliffs.

20.71 Top of spur, projecting N. Desc. 120 ft.

24.92 Bottom of canyon, 100 lks. wide, course NE. Asc. abruptly, 420 ft., over E. slope.

40.16 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} S\ 9 \\ \frac{1}{4} \\ \hline S16 \\ 1917 \end{array}$$

from which

An oak, 6 ins. diam., bears S.17 $\frac{1}{2}$ °W., 11 lks. dist., marked $\frac{1}{4}$ S16 BT.

An oak, 8 ins. diam., bears N.34 $\frac{1}{2}$ °W., 28 lks. dist., marked $\frac{1}{4}$ S9 BT.

Continue ascent, 440 ft.

52.12 Top of ridge, bears N. and S. Thence along N. slope.

57.32 Head of Mud Springs Canyon, 50 lks. wide at bottom, course N.

58.80 Top of main ridge of Winchester Mountains, bears NW. and SE. Desc. abruptly, 570 ft., over SW. slope.

80.32 The cor. of secs. 8, 9, 16 and 17.

Land, rough mountainous.

Soil, rocky; 4th rate.

Timber, oak and juniper.

Undergrowth, scrub oak and manzanita.

N.0°09'W., bet. secs. 8 and 9, over rough mountainous land, through scattering juniper and oak timber and scattering scrub oak underbrush. Asc. 340 ft., over SW. slope.

16.13 Top of main ridge of Winchester Mountains, bears NW. and SE. Desc. 610 ft.

34.77 Mud Springs Canyon, 50 lks. wide at bottom, course W. Asc. 35 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to solid rock and 14 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} S8\ | \ S9 \\ \frac{1}{4} \\ \hline 1917 \end{array}$$

from which

An oak, 8 ins. diam., bears N.49 $\frac{1}{4}$ °E., 42 lks. dist., marked $\frac{1}{4}$ S9 BT.

An oak, 8 ins. diam., bears S.51°W., 14 lks. dist., marked $\frac{1}{4}$ S8 BT.

Continue ascent, 230 ft., over SW. slope.

61.00 Top of rocky spur, projecting W. Desc. 130 ft.

72.00 Top of ridge, bearing NW. and SE. Desc. 150 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 12 ins. in the ground to rock and 12 ins. in a mound of stone, for cor. of secs. 4, 5, 8 and 9, marked on brass cap

Chains

T12S | R22E
 S5 | S4

 S8 | S9

1917

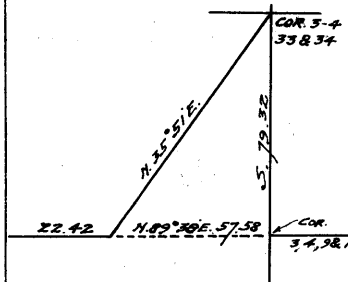
from which

- A juniper, 18 ins. diam., bears N.5°E., 185 lks. dist., marked T12S R22E S4 BT.
- An oak, 12 ins diam., bears S.16°E., 45 lks. dist., marked T12S R22E S9 BT.
- An oak, 10 ins. diam., bears S.67°W., 80 lks. dist., marked T12S R22E S8 BT.
- An oak, 12 ins. diam., bears N.47½°W., 113 lks. dist., marked T12S R22E S5 BT.

Land, rough mountainous.
 Soil, rocky; 4th rate.
 Timber, oak and juniper.
 Undergrowth, mahogany and scrub oak.

22.42

N.89°50'E., on a random line, bet. secs. 4 and 9.
 I obtain distance across extremely rugged slopes, over which accurate chaining is impracticable, as follows:
 The cor. of secs. 3, 4, 9 and 10 bears N.89°38'E., and a flag on the cor. of secs. 3, 4, 33 and 34, on N. bdy. of Tp. bears N.35°51'E.; which gives for the distance to cor. of secs. 3, 4, 9 and 10, $79.32 \times \sin 35^\circ 51' \div \sin 53^\circ 47'$, or $79.32 \times .58567 \div .80679$, or 57.58 chs., making total distance 22.42 + 57.58, or 80.00 chs.



80.00

Intersect N. and S. line 20 lks. S. of the cor. of secs. 3, 4, 9 and 10.

Thence S.89°41'W., on a true line, bet. secs. 4 and 9, over rough mountainous land, through scattering timber and undergrowth. Desc. 40 ft.

5.50

Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 200 ft.

32.00

Top of spur, projecting NE. Desc. 75 ft.

34.50

Ft. of slope, at E. side of bottom of canyon, course N.

39.50

Asc. 70 ft., on W. side of canyon.

40.00

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

S 4

 ¼
 S 9
 1917

from which

An oak, 12 ins. diam., bears NORTH, 10 lks. dist., marked ¼ S4 BT.

No other bearing tree within limits. Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Continue ascent, 425 ft.

48.60

Top of cliff, facing E., bears N. and S.; height 100 ft. Continue ascent, 360 ft., to top of ridge.

61.43

Top of ridge, bears NE. and SW. Desc. 140 ft.

70.85

Bed of ravine, 15 lks. wide at bottom, course NE. Asc. 280 ft.

80.00

The cor. of secs. 4, 5, 8 and 9.

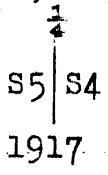
Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, oak and juniper.
 Undergrowth, scrub oak.

Subdivision of T. 12 S., R. 22 E.

Chains

- 40.00 N.0°09'W., on a random line, bet. secs. 4 and 5.
- 79.02 Set temp. 1/4 sec. cor.
- Intersect N. bdy. of Tp. 68 lks. W. of the cor. of secs. 4, 5, 32 and 33, reestablished as cor. of secs. 32 and 33, as hereinbefore described. To avoid an excessive bearing in the line bet. secs. 4 and 5, I set a cor. for these secs. on the N. bdy. of Tp. midway bet. the cor. of secs. 3, 4, 33 and 34 and the cor. of secs. 5, 6, 31 and 32, which falls at a point 33 lks. W. of the cor. of secs. 32 and 33, more particularly described in the field notes of the resurvey of N. bdy. of the Tp., herein.

- From the cor. of secs. 4 and 5,
S.0°06'W., on a true line, bet. secs. 4 and 5,
over rough mountainous land, through scattering timber and undergrowth. Asc. 314 ft., along W. side of spur.
- 22.02 Top of low ridge, bears NE. and SW. Continue ascent, 184 ft., along E. side of mountain.
- 39.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

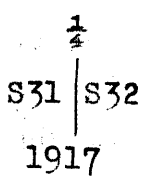


from which
An oak, 8 ins. diam., bears N.85°E., 57 lks. dist., marked 1/4 S4 BT.
A juniper, 8 ins. diam., bears N.47°20'W., 187 lks. dist., marked 1/4 S5 BT.

- Asc. 150 ft.
- 44.22 Ridge, bears NW. and SE. Desc. slightly.
- 47.80 Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 220 ft.
- 58.30 Top of spur projecting E. Asc. 80 ft.
- 62.17 Head of ravine, 5 lks. wide at bottom, course NE. Asc. 130 ft.
- 70.00 Top of same ridge, bears NE. and SW. Continue ascent, on NE. side of mountain.
- 79.02 The cor. of secs. 4, 5, 8 and 9.

Land, rough and mountainous.
Soil, rocky; 4th rate.
Timber, scattering oak and juniper.
Undergrowth, scrub oak.

- From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., described in Book F,
- N.0°10'W., bet. secs. 31 and 32,
over open, hilly land.
- 17.30 Wash, 10 lks. wide, 4 ft. deep, course SW. Asc. 110 ft. to top of ridge.
- 27.14 E. S. Schilling's house, corral and well bear W., 30.10 chs. dist.
- 28.50 Top of ridge, bears NE. and SW. Desc. into Pole-cat Canyon.
- 36.17 Barbed wire fence bears N.70°E. and S.70°W.
- 37.00 Bed of Pole-cat Canyon, 30 lks. wide at bottom, course SW, 150 ft. below ridge. Asc. slightly.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground and 14 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap



Chains

from which

An oak, 14 ins. diam., bears S.3°30'E., 253 lks. dist., marked 1/4 S32 BT.

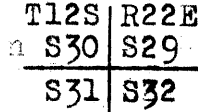
An oak, 12 ins. diam., bears S.36°30'W., 330 lks. dist., marked 1/4 S31 BT.

Asc. 220 ft.

56.00 Top of ridge bears NE. and SW. Desc. 180 ft.

68.40 Bed of ravine, 40 lks. wide at bottom, course SW. Asc. 125 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 26 ins. in a mound of stone on rock, for cor. of secs. 29, 30, 31 and 32, marked on brass cap



1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, hilly, and mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak.

EAST, on a random line, bet. secs. 29 and 32.

40.00 Set temp. 1/4 sec. cor.

80.16 Intersect N. and S. line 18 lks. N. of the cor. of secs. 28, 29, 32 and 33.

Thence N.89°52'W., on a true line, bet. secs. 29 and 32, over rough mountainous land, through scattering oak, juniper and pinyon timber and scrub oak underbrush. Desc. 230 ft., over rocky W. slope.

17.77 Top of bluff, 40 ft. high, facing W., bears N. and S. Desc. 220 ft., over bluff.

30.16 Bottom of ravine, 10 lks. wide across bed, course SW. Continue descent, 50 ft., crossing point of spur from N.

35.16 Bottom of ravine, 20 lks. across bed, course SW. Asc. slightly.

40.08 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap

S29

1/4

S32

1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Asc. 160 ft.

47.50 Top of rocky spur, projecting S. Desc. 150 ft., along S. side of spur.

66.26 Top of spur, projecting S. Desc. 80 ft.

73.36 Bottom of ravine, 10 lks. wide across bottom, course S. Asc. 110 ft.

80.16 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, oak, juniper and pinyon.

Undergrowth, scrub oak.

WEST, on a random line, bet. secs. 30 and 31.

40.00 Set temp. 1/4 sec. cor.

77.06 Intersect W. bdy. of Tp. 12 lks. N. of the cor. of secs. 30 and 31, reestablished as described in Book I.

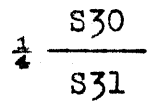
Chains

Thence N.89°55'E., on a true line, bet. secs. 30 and 31, over hilly and mountainous land, through scattering timber and undergrowth.

20.00 Desc. gradually into rocky ravine.

36.30 Barbed wire fence bears N. and S.

37.06 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone or rock, for 1/4 sec. cor., marked on brass cap



from which

An oak, 10 ins. diam., bears N.18°E., 23 lks. dist., marked 1/4 S30 BT.

An oak, 8 ins. diam., bears S.10°W., 43 lks. dist., marked 1/4 S31 BT.

43.55 Bottom of ravine, 25 lks. wide across bed, course SW. Asc. 220 ft., over rocky NW. slope of mountain.

60.00 Top of spur, projecting N. Desc. gradually.

72.82 Barbed wire fence bears N, and S.

77.06 The cor. of secs. 28, 29, 31 and 32, 50 ft. below spur.

Land, hilly on W. half and mountainous on E. half of line. Soil, rocky; 4th rate. Timber, scattering oak and juniper. Undergrowth, scrub oak.

N.0°10'W., bet. secs. 29 and 30, over rough mountainous land, through scattering oak and juniper timber and scrub oak underbrush. Asc. 70 ft.

6.60 Top of ridges, at junction, bearing E., W., and SW. Desc. 200 ft.

24.12 Bottom of Bear Canyon, 30 lks. wide across bed, course W. Asc. 220 ft.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. in the ground to rock and 14 ins. in a mound of stone, for 1/4 sec. cor., marked on brass cap



from which

An oak, 12 ins. diam., bears S.66°E., 160 lks. dist., marked 1/4 S29 BT.

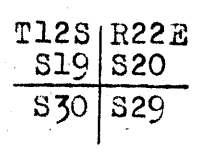
An oak, 12 ins. diam., bears S.14°W., 127 lks. dist., marked 1/4 S30 BT.

Asc. 40 ft.

49.75 Top of spur, projecting SW. Continue ascent, 280 ft., along W. side of spur.

78.00 Bed of rocky ravine, 20 lks. wide at bottom, course SW. Asc. 30 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked on brass cap



and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rough mountainous. Soil, rocky; 4th rate. Timber, oak and juniper. Undergrowth, scrub oak.

Chains

40.00 S.89°52'E., on a random line, bet. secs. 20 and 29.
Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line 8 lks. N. of the cor. of secs. 20, 21, 28 and 29.

Thence N.89°49'W., on a true line, bet. secs. 20 and 29, over rough mountainous land, through scattering timber and undergrowth. Asc. 50 ft.

7.00 Top of Bald Ridge, bears N.80°W. and S.80°E. Spur projects NW. Desc. 340 ft., along ridge.

21.00 Saddle of Bald Ridge. Head of ravine, 15 lks. wide at bottom, course S. Asc. 130 ft., along S. side of ridge.

40.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

S20
 $\frac{1}{4}$ ———
S29
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Asc. 60 ft.

44.40 Top of spur projecting S. Desc. 90 ft.

49.20 Head of ravine, 20 lks. wide at bottom, course S. Asc. 30 ft.

59.10 Top of spur projecting S. Desc. 390 ft., over W. slope of spur.

78.00 Bed of rocky ravine, 25 lks. wide, at bottom, course SW.

80.04 The cor. of secs. 19, 20, 29 and 30.

Land, mountainous.
Soil, rocky, 4th rate.
Timber, oak and juniper.
Undergrowth, scrub oak.

40.00 S.89°55'W., on a random line, bet. secs. 19 and 30.
Set temp. $\frac{1}{4}$ sec. cor.

76.85 Intersect W. bdy. of Tp. 5 lks. S. of the reestablished cor. of secs. 19 and 30, described in Book I.

Thence N.89°57'E., on a true line, bet. secs. 19 and 30, over rough mountainous land, through scattering underbrush. Asc. 50 ft.

6.77 Bed of ravine, 50 lks. wide at bottom, course SW. Asc. along SW. slope of Bald Ridge.

36.85 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on rock, for $\frac{1}{4}$ sec. cor., marked on brass cap

S19
 $\frac{1}{4}$ ———
S30
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

39.50 Top of spur projecting S., 450 ft. above bottom of ravine. Desc. 150 ft.

49.85 Bed of ravine, 10 lks. wide at bottom, course S.25°W. Asc. 330 ft.

61.80 Top of ridge, bearing N. and S. Desc. 290 ft.

73.85 Bed of ravine, 10 lks. wide at bottom, course SE.

76.85 The cor. of secs. 19, 20, 29 and 30.

Land, rough mountainous.
Soil, rocky; 4th rate.
No timber.
Undergrowth, lechuguilla.

Subdivision of T. 12 S., R. 22 E.

Chains

N.0°10'W., bet. secs. 19 and 20,
 over rough mountainous land, through scattering timber
 and undergrowth. Asc. 510 ft., over S. slope of Bald
 Ridge.

15.14 Top of Bald Ridge, bears E. and W. Desc. 300 ft.
 24.70 Bed of rocky ravine, 30 lks. wide at bottom, course NW.
 Asc. 220 ft.

32.53 Top of spur projecting N.10°W. Desc. 120 ft., along NE.
 slope of spur.

40.00 Set an iron post, 3 ft. long, 1 in. diam.;, 15 ins. in the
 ground to rock and 11 ins. in a mound of stone, for $\frac{1}{4}$
 sec. cor., marked on brass cap

$\frac{1}{4}$
 S19 | S20

1917

from which
 An oak, 12 ins. diam., bears N.77 $\frac{1}{2}$ °E., 65 lks. dist.,
 marked $\frac{1}{4}$ S20 BT.
 A juniper, 20 ins. diam., bears S.89°W., 152 lks. dist.
 marked $\frac{1}{4}$ S19 BT.

Desc. 380 ft.
 59.76 Bed of Pine Canyon, 150 lks. wide, course N.75°W. Asc.
 280 ft.

73.60 Top of open, flat ridge, bears NW. and E. Desc. 120 ft.
 80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in a
 mound of stone on rock, for cor. of secs. 17, 18, 19
 and 20, marked on brass cap

T12S | R22E
 S18 | S17
 S19 | S20

1917

from which
 An oak, 10 ins. diam., bears S.71°W., 95 lks. dist.,
 marked T12S R22E S19 BT.
 An oak, 14 ins. diam., bears N.54 $\frac{1}{4}$ °W., 142 lks. dist.,
 marked T12S R22E S18 BT.
 No other bearing trees available. Raise a mound of
 stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rough and mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering oak and juniper.
 Undergrowth, scrub oak and mahogany.

40.00 S.89°49'E., on a random line, bet. secs. 17 and 20.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.18 Intersect N. and S. line 4 lks. N. of the cor. of secs.
 16, 17, 20 and 21.

Thence N.89°47'W., on a true line, bet. secs. 17 and 20,
 over rough mountainous land, through scattering timber
 Desc. 290 ft.

9.40 Bed of ravine, 10 lks. wide at bottom, course S. Asc.
 115 ft.

19.34 Top of spur projecting SW. Desc. 200 ft.

30.20 Bed of ravine, 15 lks. wide at bottom, course SW. Asc.
 100 ft.

40.09 On summit of ridge, bearing NE. and SW.,
 Set an iron post, 3 ft. long, 1 in. diam., 10 ins. in the
 ground to rock and 16 ins. in a mound of stone, for $\frac{1}{4}$
 sec. cor., marked on brass cap

S17
 $\frac{1}{4}$ ———
 S20
 1917

Chains

from which:

An oak, 14 ins. diam., bears S.87½°W., 23 lks. dist., marked ¼ S20 BT.

An oak, 10 ins. diam., bears N.43°W., 69 lks. dist., marked ¼ S17 BT.

Desc. 80 ft.

53.94 Bed of ravine, 15 lks. wide at bottom, course N.80°W. Continue descent, 330 ft., along S. side of canyon.

80.18 The cor. of secs. 17, 18, 19 and 20.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, oak and juniper.

Undergrowth, scrub oak and mahogany.

40.00 S.89°57'W., on a random line, bet. secs. 18 and 19.

76.78 Set temp. ¼ sec. cor.

Intersect W. bdy. of Tp. 10 lks. S. of the reestablished cor. of secs. 18 and 19, described in Book I.

Thence S.89°59'E., on a true line, bet. secs. 18 and 19, over rough mountainous land, through scattering timber and undergrowth. Asc. 40 ft.

4.96 Top of ridge, bearing NW. and SE. Desc. abruptly, 400 ft., over NE. slope.

21.90 Bed of Pine Canyon, 100 lks. wide, course N.75°W. Asc. 325 ft., over SW. slope.

36.78 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼ $\frac{S18}{S19}$
1917

and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

61.90 Asc. 90 ft., over open, rolling land.

Junction of flat ridges, bearing NW., SE. and N.75°W. Desc. 130 ft., over NE. slope.

76.78 The cor. of secs. 17, 18, 19 and 20.

Land, rough and mountainous on W. half and rolling and hilly on remainder of line.

Soil, rocky; 4th rate.

Timber, oak.

Undergrowth, scrub oak.

N.0°10'W., bet. secs. 17 and 18, over rough mountainous land, through scattering timber and undergrowth. Desc. 130 ft.

4.90 Bed of ravine, 20 lks. wide at bottom, course NW. Asc. 270 ft.

32.41 Top of spur, projecting NW. Desc.

33.04 E. D. Poore's log shack bears E., 39.75 chs. dist.

Spring, running about one half-gallon per minute, and iron tank, bear E., 43.30 chs. dist.

40.00 (60 ft. below spur,)

Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap

¼ $\frac{S18}{S17}$
1917

from which

An oak, 10 ins. diam., bears N.89°E., 34 lks. dist., marked ¼ S17 BT.

Chains

An oak, 8 ins. diam., bears S.16°W., 175 lks. dist., marked 1/4 S18 BT.

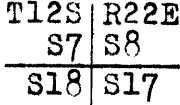
Desc. 250 ft.

49.02 Bed of canyon, 75 lks. wide at bottom, course NW. Asc. 200 ft.

60.44 Top of ridge, bearing NW. and SE. Desc. 110 ft.

68.00 Bed of ravine, 10 lks. wide at bottom, course NW. Asc. 130 ft.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 16 ins. in the ground to rock and 8 ins. in a mound of stone, for cor. of secs. 7, 8, 17 and 18, marked on brass cap



1917

and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Land, rough and mountainous.

Soil, rocky; 4th rate.

Timber, oak and juniper.

Undergrowth, scrub oak.

S.89°47'E., on a random line, bet. secs. 8 and 17.

40.00 Set temp. 1/4 sec. cor.

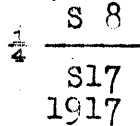
80.25 Intersect N. and S. line 4 lks. S. of the cor. of secs. 8, 9, 16 and 17.

Thence N.89°49'W., on a true line, bet. secs. 8 and 17, over rough mountainous land, through scattering timber and undergrowth. Desc. 250 ft.

6.50 Bed of ravine, 10 lks. wide at bottom, course SW. Continue descent, over SW., slope, 390 ft.

38.90 Ft. of slope, on E. side of Rockhouse Canyon, course NW.

40.12 1/2 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap



from which

A pine, 24 ins. diam., bears S.10°E., 138 lks. dist., marked 1/4 S17 BT.

An oak, 14 ins. diam., bears N.18°45'W., 85 lks. dist., marked 1/4 S8 BT.

41.00 Asc. 270 ft.

56.00 Top of ridge, bears NW. and SE. Desc. 440 ft., over SW. slope.

80.25 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, oak and pine.

Undergrowth, scrub oak.

N.89°59'W., on a random line, bet. secs. 7 and 18.

40.00 Set temp. 1/4 sec. cor.

76.42 Intersect W. bdy. of Tp., 12 lks. S. of the reestablished cor. of secs. 7 and 18, described in Book I.

Thence S.89°54'E., on a true line, bet. secs. 7 and 18, over mountainous land, through scattering timber and undergrowth. Asc. 210 ft., along SW. slope.

Chains

36.42 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to solid rock and 8 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \text{ S } 7 \\ \hline \text{S } 18 \\ 1917 \end{array}$$

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Asc. 60 ft.

50.40 Top of ridge, bears N.80°W. and S.80°E. Desc. 50 ft.

65.32 Bed of ravine, 30 lks. wide at bottom, course NW. Asc. 260 ft.

76.42 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, oak.

Undergrowth, scrub oak.

N.0°10'W., bet. secs. 7 and 8, over mountainous land, through scattering timber and undergrowth. Asc. 300 ft., over SW. slope.

20.67 Top of ridge, bears NW. and SE. Desc. 300 ft., over NE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 18 ins. in the ground to rock and 8 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked on brass cap

$$\begin{array}{r} \frac{1}{4} \\ \hline \text{S } 7 \mid \text{S } 8 \\ 1917 \end{array}$$

from which

An oak, 6 ins. diam., bears S.80 $\frac{1}{2}$ °E., 80 lks. dist., marked $\frac{1}{4}$ S8 BT.

An oak, 20 ins. diam., bears S.70°W., 63 lks. dist., marked $\frac{1}{4}$ S7 BT.

Continue descent, 190 ft.

52.00 Bed of Rockhouse Canyon, 75 lks. wide at bottom, course NW. Asc. 340 ft., over SW. slope.

77.56 Top of spur, projecting N.70°W. Desc. slightly.

80.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked on brass cap

$$\begin{array}{r} \text{T12S} \mid \text{R22E} \\ \hline \text{S6} \mid \text{S5} \\ \hline \text{S7} \mid \text{S8} \\ 1917 \end{array}$$

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering oak.

Undergrowth, scrub oak.

40.00 S.89°49'E., on a random line, bet. secs. 5 and 8. Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, 7 lks. N. of the cor. of secs. 4, 5, 8 and 9.

Thence N.89°46'W., on a true line, bet. secs. 5 and 8, over rough mountainous land, through scattering timber and undergrowth. Asc. 60 ft.

3013

Subdivision of T. 12 S., R. 22 E.

Chains	
2.50	Junction of ridges, bears NW., SE., and NE. Desc. abruptly, 720 ft., over W. slope.
20.00	Mud Springs Canyon, 75 lks. wide at bottom, course NW.
40.00	Asc. abruptly, 610 ft., over steep E. slope.
40.00	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4} \frac{S\ 5}{S\ 8}$ 1917
	from which
	An oak, 10 ins. diam., bears S.33°40'W., 52 lks. dist., marked $\frac{1}{4}$ S8 BT.
	A mahogany, 10 ins. diam., bears N.72 $\frac{1}{2}$ °W., 41 lks. dist., marked $\frac{1}{4}$ S5 BT.
	Continue ascent, 20 ft.
41.90	Top of ridge, bears N.25°W., and S.25°E. Desc. 800 ft., over W. slope.
64.24	Bed of ravine, 20 lks. wide at bottom, course NW. Asc. 200 ft.
80.00	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous. Soil, rocky; 4th rate. Timber, oak and juniper. Undergrowth, scrub oak.
40.00	N.89°54'W., on a random line, bet. secs. 6 and 7.
76.18	Set temp. $\frac{1}{4}$ sec. cor. Intersect W. bdy. of Tp. 7 lks. S. of the cor. of secs. 6 and 7, reestablished as described in Book I.
	Thence S.89°51'E., on a true line, bet. secs. 6 and 7, over rocky mountainous land, through scattering timber. Desc. 110 ft., along S. slope.
35.70	Bed of Rockhouse Canyon, 50 lks. wide at bottom, course S.80°W.
36.18	Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in a mound of stone on solid rock, for $\frac{1}{4}$ sec. cor., marked on brass cap
	$\frac{1}{4} \frac{S\ 6}{S\ 7}$ 1917
	from which
	An oak, 14 ins. diam., bears S.70°W., 133 lks. dist., marked $\frac{1}{4}$ S7 BT.
	An oak, 20 ins. diam., bears N.78 $\frac{1}{2}$ °W., 182 lks. dist., marked $\frac{1}{4}$ S6 BT.
	Asc. 20 ft.
37.80	Top of point of spur projecting N. Desc. 20 ft.
41.70	Bed of Rockhouse Canyon, 50 lks. wide at bottom, course NW. Mouth of ravine entering canyon from NE., bears N., 100 lks. dist. Asc. 500 ft.
74.20	Top of spur projecting N.70°W. Continue ascent 20 ft.
76.18	The cor. of secs. 5, 6, 7 and 8.
	Land, mountainous. Soil, rocky; 4th rate. Timber, scattering oak. Undergrowth, scrub oak on E. half of mile.
40.00	N.0°10'W., on a random line, bet. secs. 5 and 6.
78.67	Set temp. $\frac{1}{4}$ sec. cor. Intersect N. bdy. of Tp. 22 lks. W. of the reestablished cor. of secs. 5, 6, 31 and 32, hereinbefore described.

Chains

Thence S.0°01'E., on a true line, bet. secs. 5 and 6, over rough mountainous land, through scattering timber and undergrowth. Asc. slightly.

1.40 Top of ridge, bears E. and W. Desc. 260 ft.

15.00 Ravine, course W. Asc. slope of ridge.

21.35 Hooker's trail bears E. and W.--from Hooker's ranch to Hot Springs.

37.57 Top of ridge bears N.60°W. and S.60°E., 690 ft. above bed of ravine.

38.67 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap

$\frac{1}{4}$
S6 | S5
1917

from which
A juniper, 24 ins. diam., bears N.58°W., 200 lks. dist., marked $\frac{1}{4}$ S6 BT.
No other bearing tree available. Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Desc. 160 ft.

47.30 Bed of ravine, 15 lks. wide at bottom, course W.; heads 10 chs. E. Asc. 200 ft.

55.60 Top of ridge bears E. and W. Desc. 310 ft.

68.20 Bed of canyon, 15 lks. wide at bottom, course N.80°W. Asc. 310 ft.

78.67 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous.
Soil, rocky; 4th rate.
Timber, oak and juniper.
Undergrowth, scrub oak.

Boundaries of T. 12 S., R. 22 E.

Latitudes, Departures and Closing Errors.

Line designated	True Course	Dist. chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
South Boundary	WEST	477.40				477.40
West Boundary	NORTH	76.95	76.95			
	N.0°04'W.	159.52	159.52			.19
	NORTH	241.39	241.39			
North Boundary	N.89°39'E.	76.44	.47		76.44	
	EAST	80.28			80.28	
	N.89°29'E.	79.62	.72		79.62	
	N.89°15'E.	40.21	.52		40.21	
	N.89°39'E.	120.00	.73		120.00	
	N.89°36'E.	40.20	.28		40.20	
East Boundary	N.89°25'E.	40.16	.41		40.16	
	S.0°07'E.	481.93		481.93	.98	
Convergency					.46	
Totals			480.99	481.93	478.35	477.59
				480.99	477.59	
Error in latitude				.94		
	Error in departure				.76	

LOCATION: This township is situated in the Winchester Mountains,--a part of the Galiuro Range--about 18 miles NW. of Willcox, Arizona. The main ridge of the Winchester Mountains runs in a northwesterly and southeasterly direction through secs. 35, 34, 27, 22, 21, 16, 8 and 5. The highest point is Rilay Peak, in sec. 16, which has an altitude of 7700 ft. above sea level.

GENERAL SLOPE: The township is drained E. from the Winchester Mountains by Rilay, Rose, Oak Grove and Wood Canyons; and towards the W. by Rockhouse, Pine, Bear and Pole-cat Canyons. These canyons contain water during part of the year only.

SURFACE AND SOIL: The N. half of sec. 1, about 80 acres in the NE. $\frac{1}{4}$ of sec. 12, and the NW. $\frac{1}{4}$ of the NW. $\frac{1}{4}$ of sec. 2 are agricultural land, about 10 acres in the SE. $\frac{1}{4}$ of the NE. $\frac{1}{4}$ of sec. 1 being under cultivation. The balance of the township is rocky, with 4th rate soil, non-agricultural.

VEGETATION: There is fair grazing in the W. two ranges of sections, but the rugged nature of the mountains in the remainder makes its value doubtful for any thing but goat raising. Throughout the township there is a scattering growth of oak, black-jack, juniper, madrone, hackberry, cedar, pinyon, pine and fir. The pine in secs. 20, 21 and 27, in Pine Canyon, is of commercial size, but is inaccessible. Undergrowth varies from dense to scattering scrub oak, manzanita and mahogany, throughout the township.

MINERALS: The prevailing geological formation is a stratified conglomerate, dipping toward the NW.; with granite, limestone, porphyry, trachite and malpais. There are no mines or no known minerals of value.

SPRINGS AND WELLS: Mud Springs, in the NW. $\frac{1}{4}$ of the NE. $\frac{1}{4}$ of sec. 5, has permanent water, and flows about 3 to 4 gallons per minute. E. D. Poore's Spring in the NW. $\frac{1}{4}$ of the SE. $\frac{1}{4}$ of sec. 17, flows about $\frac{1}{2}$ gallon per minute. A well at E. S. Schilling's, in the NW. $\frac{1}{4}$ of the SE. $\frac{1}{4}$ of sec. 31; and an artesian well 30 ft. deep, with reservoir, at D. C. Thurman's, in the SE. $\frac{1}{4}$ of the NE. $\frac{1}{4}$ of sec. 1, have good water.

SETTLERS: There are settlers in secs. 1, 3, 4, 12, 17 and 31.

VALUE: The township is valuable for wood and grazing only.

Book "I"

Group 63 - - Arizona.

4-680

BOOK 3013

Township 12 South, Range 21 East.

DATE DIAGRAM.

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

RETRACED

Surveys, resurveys and retracements executed on dates shown in yellow on above diagram, by Quintin Campbell, U. S. Transitman.

CERTIFICATE OF UNITED STATES SURVEYOR.

BCC 3013

I, Quintin Campbell, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 63, Arizona, bearing date of the 7th day of October, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines, resurveyed all those parts or portions of the North boundary, and retraced all those parts or portions of the East boundary of TOWNSHIP 12 SOUTH, RANGE 22 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me, and under my direction; and that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Group 63, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Quintin Campbell
U. S. Transitman.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, April 29, 1918.

The foregoing field notes of the survey of the subdivision lines, resurvey of the North boundary, and retracement of one mile of the East boundary of TOWNSHIP 12 SOUTH, RANGE 22 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Quintin Campbell, U. S. Transitman,

under his special instructions dated October 7, 1915, for Group 63, Ariz., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys resurveys and retracements they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above described surveys in has been correctly copied from the original notes on file in this office.