

FIELD NOTES

of

West boundary and interior section

lines of Township 4 North, Range 8 West,

S. B. M.

Copied from certified photographic
copy received from General Land Office
December, 1921.

R. 9 W.		R. 8 W.						R. 8 W.		R. 7 W.		
36	31	32	33	34	35	36	31					T. 5 N.
1	6	46 5	45 4	45 3	44 2	43 1	6					T. 4 N.
		46 45	45 44	44 43	43 42	42 41						
12	7	19 8	19 9	17 10	15 11	12 12	7					
		20 17	18 16	16 15	14 13	12 11						
13	14 18	20 17	18 16	17 15	15 14	13 13	18					
		21 19	20 17	17 15	15 14	13 12						
24	23 19	23 20	25 21	22	23	24	19					
		24 26	26 28	27	26	25						
25	30	25 29	27 28	27	26	25	30					
		27 28	28 34	35	36	31						
36	31	32	33	34	35	36	31					T. 4 N.
1	6	5	4	3	2	1	6					T. 3 N.

- W. J. Lightfoot ~ Instructions dated Nov. 17, 1917.
- W. A. Sickler ~ Contract dated Mar. 19, 1904.
- Henry Hancock ~ Contract dated Feb. 15, 1855.

"B"

FIELD NOTES

Of the Survey of the

Retracement and Resurvey of a portion of the subdivision and
Retracement and Resurvey of a portion of the W. bdy. of T. 4
North, R. 8 West.

.
.
.
.

Of the San Bernardino Meridian,
In the State of California

EXECUTED BY

John R. English, U. S. Transitman and

W. J. Lightfoot, U. S. Cadastral Engineer

In the capacity of U. S. Surveyor__, under instructions dated
November 17, 1917, issued by the United States Surveyor General
to govern surveys included in Group No. 49, which were approved
by the Commissioner of the General Land Office, December 10,
1917, and assignment instructions dated January 31, 1918, and
March 1, 1919.

Survey commenced March 26, 1918.

Survey completed March 12, 1919.

RETRACEMENT OF THE SUBDIVISION OF T. 4 N., R. 8 W.

Survey commenced March 26, 1918, and executed with
a Buff & Buff transit No. 9985, with solar attachment.

For description and tests of instrument see Book A.

	I commence at the cor. of Secs. 25 and 36 on the E. Bdy. of Tp., which is described in Book A.
39.40	Thence from cor. west on a Random line bet. Secs. 25 and 36
78.90	Fall 2.03 chs. N. of the 1/4 sec. cor.
	Fall 25 lks. S. of the cor. of Secs. 25, 35 and 36.
	I return to the cor. of Secs. 25 and 36.
	Thence S. 87° 03' W., on a TRUE line bet. Secs. 25 and 36.
17.68	Over broken N. slope thru pine and oak timber.
25.82	Spur, slopes N. Desc. 215 ft. over SW slope.
	Beneyard Canyon, course N. A spring in canyon about 10.00
	chs. of line. Ascend 220 ft. over E. slope.
33.20	Spur, slopes N. Desc. 130 ft. over NW slope.
37.07	Canyon, course N. Asc. 90 ft. over NE slope.
39.45	The 1/4 sec. cor. which is an oak tree, 14 ins. diam., marked and witnessed as described by the Surveyor General.
	Thence N. 86° 42' W., on a TRUE line bet. Secs. 23 and 36.
	Asc. 180 ft. over NE slope.
15.00	Ridge, bears NW and SE Desc. 390 ft. over W. slope.
28.95	Canyon, Le Mountain Creek, 6 lks. wide, 6 ins. deep course
	NW Asc. 250 ft. over NE slope.
39.55	The cor. of Secs. 25, 26, 35 and 36, which is a sand stone 14 x 6 x 6 ins. above ground, marked and witnessed as described by the Surveyor General.
	Land, mountainous; soil, sand and rock, 3rd and 4th rate.
	Timber, pine and oak with some cedar along Le Mountain Creek.
	Undergrowth, manzanita and chaparral.
	Thence, North on a RANDOM line bet. Secs. 25 and 26
39.61	Fall 39 lks. E. of the 1/4 sec. cor.
79.12	Fall 1.95 chs. E. of the cor. of Secs. 23, 24, 25 and 26.
	I return to the cor. of Secs. 25, 26, 35 and 36.
	Thence from cor. N. 0° 34' W., on a TRUE line bet. Secs. 25 and 26.
	Desc. 390 ft. over N. slope. Thru pine and oak timber.
13.87	Le Mountain Creek, 7 lks. wide, 6 ins. deep, course NW Asc.
	56 ft. over SW slope.
19.40	Spur, slopes W. Desc. 100 ft. over NW slope.
23.86	Gulch, course W. Asc. 50 ft. over SW slope.
26.43	Spur, slopes W. Desc. 150 ft. over NW slope.
35.21	Trail, bears NE and SW
36.50	Le Mountain Creek, 6 lks. wide, 6 ins. deep, course NE Asc.
	30 ft. over SE slope.
39.61	The 1/4 sec. cor., which is a double live oak, 12 ins. diam. marked and witnessed as described by the Surveyor General.
	Thence N. 2° 16' W., on a TRUE line bet. Secs. 25 and 26.
	Asc. 115 ft. over SE slope.
4.80	Spur, slopes E. Desc. 125 ft. over NE slope
8.50	Ravine, course E. Thence over broken E. slope
15.40	Spur, slopes NE Desc. 230 ft. over NE slope.
24.50	Gulch, course E. Asc. 30 ft. over SE slope.

RETRACEMENT OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

26.75
34.56
36.50
39.54

Spur slopes N.E. Desc. 70 ft. over N.E. slope
Gulch, course E. Asc. 40 ft. over S. E. slope
Ridge, bears N.E. and S.W. Desc. 40 ft. over N. slope
The cor. of secs. 23, 24, 25 and 26 which is a granite stone.
10 x 6 x 4 ins. above ground, marked and witnessed as
described by the Surveyor General.
Land, mountainous. Soil, sand and rock, 3rd and 4th rate
Timber, pine and oak. Undergrowth, manzanita and chaparral.

40.81

Thence, N. 0° 15' W. on a RANDOM line bet. secs. 23 and 24.
Fall 40 lks. W. of W.O. 1/4 sec. cor.
Thence from W.O. N. 0° 15' W., on a RANDOM line bet. secs.
23 and 24.

28.06

Fall 67 lks. W. of W.O. for secs. 13, 14, 23 and 24.
Thence from cor. N. 0° 15' W., on a RANDOM line bet. secs.
23 and 24.

8.00

Set temp. cor. for secs. 13, 14, 23 and 24.
Thence from temp. cor. North, on a RANDOM line bet. secs.
13 and 14.

18.00

40.91

Find no trace of W.O. of secs. 13, 14, 23 and 24.
Fall 67 lks. E. of the 1/4 sec. cor. bet. secs. 13 and 14.
Thence from 1/4 sec. cor. North on RANDOM line bet. secs.
13 and 14.

40.01

Fall 49 lks. E. of the cor. of secs. 13 and 14, 11 and 12.
From the cor. of secs. 14, 15, 22 and 23.
Thence East on RANDOM line bet. secs. 14 and 23.

40.00

73.82

77.82

Find no trace of 1/4 sec. cor.
Witness cor. for secs. 13, 14, 23 and 24.
Set temp. cor. for secs. 13, 14, 23 and 24, from which the
temp. cor. set from the S., bears south 1.11 chs. dist.
The witness cor. bet. secs. 13 and 24 for the cor. of secs.
13, 14, 23 and 24 is a stake 2 ins. sq., 12 ins. above
ground, marked and witnessed as described by the Surveyor
General. From this W.O. I measure West, 6.29 chs. and
set a temp. cor. for secs. 13, 14, 23 and 24, from which
the temp. cor. set from the West bears S. 79° 19' E. 46 1/2
lks. dist.

27.00

I return to the cor. of secs. 23, 24, 25 and 26.
Thence, N. 0° 19' E., on a TRUE line bet. secs. 23 and 24.
Desc. 430 ft. over broken N.W. slope thru scattering timber.
Stream, 2 lks. wide, 3 ins. deep, course N.E. Asc. 35 ft.
over S.E. slope.

32.51

38.28

39.58

Spur, slopes N.E. Desc. 110 ft. over N.W. slope
Canyon course N.E.
Stream, 2 lks. wide, 3 ins. deep course W. Asc. 10 ft. over
S. slope

39.69

40.81

Point for 1/4 sec. cor. on W. bdy. sec. 24. Cor. not set
The W.O. 1/4 sec. cor. which is a boulder 4 ft. diam. 2 ft.
above ground, marked and witnessed as described by the
Surveyor General.

Thence N. 1° 67' E., on a TRUE line bet. secs. 23 and 24
Desc. 20 ft. over N.W. slope.

1° 07' per plat

1/2
Check
Not confirmed
with plat
70.81
x 112

Jump?

RETRACEMENT OF THE SUBDIVISION OF T. 4 N., R. 8 W.

4.37 Stream 3 lks. wide, 3 ins. deep, course NE, Asc. 15 ft.
 over S. slope.
 7.60 Spur, slopes NE, Desc. 30 ft. over NW slope.
 9.10 Stream 2 lks. wide, 3 ins. deep, course E. Asc. 100 ft.
 over S. slope.

14.56 Ridge bears E. and SW, desc. 170 ft. over NE slope.
 28.07 The witness cor. bet. Secs. 23 and 24, for the cor. of
 Secs. 13, 14, 23 and 24, which is a granite stone
 12 x 6 x 6 ins. above ground, marked and witnessed as
 described by the Surveyor General.

To determine the point for the cor. of Secs. 13, 14, 23
 and 24, I proceed as follows: I connect the temp. cor.
 set at record course and bearing from the W.C. to the
 south, with the temp. cor. set at record distance and
 bearing from the W.C. to the west, then at 1/3 of this
 distance, I set a fourth temp. cor., which I connect
 with the temp. cor. set at record distance and course
 from the W.C. to the east, then at 5/17 of this distance
 from the fourth temp. cor. of Secs. 13, 14, 23 and 24.
 From this point the witness corner bet. Secs. 23 and 24
 bears S. 1° 07' E., 8.88 chs. dist. and the W.C. cor.
 bet. Secs. 13 and 24 bears N. 86° 55' E. 5.98 chs. dist.
 The point for the cor. of Secs. 13, 14, 23 and 24 falls
 on a steep W. slope where it is impracticable to set cor.
 post.

Land, mountainous; soil, sand and gravel, 3rd and 4th rate.
 Timber, scattered pine and oak. Undergrowth, sage, manzanita
 and chaparral.

Thence from TRUE point for cor. of Secs. 13, 14, 23 and 24
 N. 0° 46' W. on a TRUE line bet. Secs. 13 and 14. Asc.
 150 ft. over SW slope of rock slide.

7.53 Spur slopes W. Desc. 235 ft. over N. slope, enter juniper
 and mahogany, bears E. and W.

39.90 The 1/4 sec. cor. which is a post 3 ins. sq. 24 ins. above
 ground, marked and witnessed as described by the Surveyor
 General.

40.01 Thence from cor. N. 0° 42' on a TRUE line bet. Secs. 13 and 14.
 The cor. of Secs. 11, 12, 13 and 14, which is the decayed
 remains of an old post bearing traces of scribings.

Alongside of the old post, I set an iron post 3 ft. long,
 2 ins. diam. 24 ins. in the ground for cor. of Secs. 11, 12,
 13 and 14 with brass cap marked,

T 4 N	R 8 W
8 11	8 12
8 14	8 13

1918

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

Land, rough. Soil, sand and gravel, 2nd and 3rd rate.

Timber, scrub juniper. Undergrowth, juniper, sage, chaparral
 and manzanita.

RETRACEMENT OF THE SUBDIVISION OF T. 4 N., R. 6 W.

39.97 Thence West on a RANDOM line bet. Secs. 11 and 14.
 Fall 27 lks. N. of the 1/4 sec. cor.
 Thence from 1/4 sec. cor. West, on a RANDOM line bet. Secs.
 11 and 14.
 40.00 Make diligent search but find no trace of the cor. of Secs.
 10, 11, 14 and 15. Set temp. cor.
 Thence from temp. cor. N. 0° 20' W., on a RANDOM line bet.
 Secs. 10 and 11, the cor. of Secs. 2, 3, 10 and 11 being
 visible from this point.
 40.00 Make diligent search but find no trace of 1/4 sec. cor.
 Set temp. cor.
 50.00 The cor. of Secs. 2, 3, 10 and 11. I return to the cor. of
 Secs. 11, 12, 13 and 14.
 Thence from cor. S. 89° 37' W., on TRUE line bet. Secs.
 11 and 14, Over rolling N. slope. Thru scrub juniper.
 2.87 Draw, course NE.
 26.00 Gulch, course NE.
 39.97 The 1/4 sec. cor., which is a post 3 ins. sq., 3 ft. long
 properly marked, and witnessed as described by the Surveyor
 General. Alongside of the old post I set an iron post 3 ft.
 long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor.
 with brass cap marked.

1/4 S11
S14

1915

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of the cor.

RESURVEY OF THE SUBDIVISIONS OF T 4 N., R 6 W.

26.00 Thence, West on a TRUE line bet. Secs. 11 and 14.
 32.00 Gulch, course NE.
 40.00 Spur, slopes N. Desc. 80 ft. over W. slope.
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the
 ground for cor. of Secs. 10, 11, 14 and 15, with brass cap
 marked

T4N:R6W
 S10:S11..
 S15:S14

1915

from which

A yucca, 10 ins. diam., bears N. 12° E., 53 lks. dist.,
 marked X
 A yucca, 4 ins. diam., bears S. 47 1/2° E., 35 lks. dist.,
 marked X
 A yucca, 5 ins. diam., bears S. 86° W., 49 lks. dist.,
 marked X
 A yucca, 6 ins. diam., bears N. 85 1/2° W., 47 lks. dist.,
 marked X
 I also raise a mound of stone, 2 ft. base, 1 1/2 ft. high
 W. of cor.
 Land, rolling and hilly. Soil, sand and gravel, 2nd and 3rd
 rate.
 Timber, juniper and scattering yucca. Undergrowth, scrub
 juniper.

RESURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

40.00 Thence N. 0°20' W., on a TRUE line bet. Secs. 10 and 11.
Down gentle slope of wide bottomed canyon.
Thru scattering yucca and juniper.
Set an iron post 3 ft. long, 1 in. diam. 24 ins. in the
ground for 1/4 sec. cor. with brass cap marked

1/4
S10 : S11

1918

from which

A yerbo el pasmo, 5 ins. diam., bears N. 63 1/4° W. 44 lks.
dist., marked 1/4 S. 10 B.T.

A yerbo el pasmo, 5 ins. diam., bears S. 26° E. 23 lks.
dist., marked 1/4 S. 11 B.T.

50.00

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
The cor. of Secs. 2, 3, 10 and 11, which is a post 4 ins. sq.
12 ins. above ground properly marked. Alongside of the
wooden post I set an iron post 3 ft. long, 2 ins. diam.,
24 ins. in the ground for cor. of Secs. 2, 3, 10 and 11
with brass cap marked

T4N : R8W

1/4 S3 : 1/4 S2

S10 : S11

1918

from which

A yucca, 6 ins. diam., bears N. 60° E., 1.44 chs. dist.,
marked I (Old B.T.)

A yucca, 6 ins. diam., bears S. 44 1/2° E., 96 lks. dist.,
marked I (Old B.T.)

There being no tree available for B. T. in Sec. 3, I raise
a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
Land, gentle N. slope. Soil, sand and gravel; 2nd and 3rd
rate.

Timber, scattering yucca and juniper. Undergrowth, sage.

RETRACEMENT OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

40.44

51.30

Thence West on a RANDOM line bet. Secs. 3 and 10.

Fall 30 lks. S. of the 1/4 sec. cor.

Fall 17 lks. S. of cor. of Secs. 3, 4, 9 and 10.

I return to the cor. of Secs. 2, 3, 10 and 11.

Thence N. 89° 34' W., on a TRUE line bet. Secs. 3 and 10.

Over gentle N. slope. Thru scrub juniper and sage brush.

Mescal Creek, 20 lks. wide, 6 ins. deep, course N. 20° E.

36.57

40.44

The 1/4 sec. cor. which is the greatly decayed remains of an
old post in a stone mound, the post bearing traces of
scribings. Alongside of the old post, I set an iron post
3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec.
cor., with brass cap marked

1/4 S3

S10

1918

RETRACEMENT OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

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

Thence from cor. S. 39° 45' W., on a TRUE line bet. Secs. 3 and 10.

Road up Mescal Canyon, bears N. and S.

Dim road, bears NE and SW.

Wash, course N.

The cor. of Secs. 3, 4, 9 and 10, which is a post 4 ins. sq., 12 ins. above ground properly marked but recently, and also the greatly decayed remains of the original post bearing traces of scribings. Alongside of the original post I set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of Secs. 3, 4, 9 and 10, with brass cap marked

T4N : R8W
S4 : S3
S9 : S10

1918

from which

A juniper, 8 ins. diam., bears N. 84° E., 1.47 chs. dist. marked T. 4 N., R. 8 W., S 3 B T

A yucca, 5 ins. diam., bears S. 64° E., 92 lks. dist. marked X

A juniper, 12 ins. diam., bears S. 104° W., 73 lks. dist. marked, T. 4 N., R. 8 W., S. 9 B. T.

A yucca, 6 ins. diam., bears N. 41½° W., 1.00 chs. dist., marked X

Land, rolling N. slope. Soil, sand and gravel; 2nd and 3rd rate. Timber, scrub juniper. Undergrowth, sage.

Thence West, on a RANDOM line bet. Secs. 4 and 9.

Fall 1.20 chs. N. of 1/4 sec. cor.

Fall 1.39 chs. N. of the cor. of Secs. 4, 5, 8 and 9, which is a granite stone 14x16 ins. above ground, properly marked from which a juniper 10 ins. diam., bears N. 83½° E., 61 lks. dist., marked T. 4 N., R. 8 W., S. 4 B.T. (New B.T.)

A juniper 10 ins. diam., bears N. 89° W., 33 lks. dist., marked T 4 N, R 8 W, S 5 B T (Old B.T.)

After having run the line bet. Secs. 8 and 9 this cor. becomes the cor. of Secs. 4 and 5 only.

Thence, N. 89° 44' E., on a TRUE line bet. Secs. 4 and 9

Asc. 50 ft. over NW slope. Thru scrub juniper.

The cor. of Secs. 8 and 9, hereinafter described.

Spur, slopes N. Thence over a series of spurs and gulches draining to the north.

The 1/4 sec. cor., which is a stake 3 ins. sq., 20 ins. above ground, properly marked. This now becoming a 1/4 sec. cor. for sec. 4 only, I deface the side of the post referring to sec. 9 and alongside of the post I set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 cor. of sec. 4, with brass cap marked

1/4 S4

1918

from which

A juniper 12 ins. diam., bears N. 47° W., 53 lks. dist., marked 1/4 S. 4 B.T.

Thence N. 38° 15' E., on a TRUE line bet. Secs. 4 and 9

A point 40.00 chs. E. of the NW. cor. of the Sec. 9. Set an iron

RETRACEMENT OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. of Sec. 9, with brass cap marked

1/4 89
1918

29.89

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, S. of cor. Irrigation ditch with stream, 4 lks. wide, 6 ins. deep, course NW.

36.30

Dim road, bears NW. and S.

36.90

Irrigation ditch with stream, 7 lks. wide, 6 ins. deep, course N.

39.27

The cor. of Secs. 3, 4, 9 and 10.

Land, hilly. Soil, sand and gravel; 2nd and 3rd rate.

Timber, scrub juniper. Undergrowth, scrub juniper and sage.

From the cor. of Secs. 4 and 5.

40.03

West, on a RANDOM line bet. Secs. 6 and 5.

80.23

Fall 17 lks. N. of point for 1/4 sec. cor.

Fall 72 lks. N. of the cor. of Secs. 5, 6, 7 and 8, which is a post 4 ins. sq., 24 ins. above a mound of stone and properly marked, but no trace of bearing trees. Alongside of the old post I set an iron post 3 ft. long, 2 ins. diam. 84 ins. in the ground for cor. of Secs. 5, 6, 7 and 8, with brass cap marked

T4N : R8W

86 : 85

87 : 88

1918

from which

A juniper, 8 ins. diam., bears N. 7° W., 54 lks. dist. marked T 4 N, R 8 W, 6 B.T.

A juniper, 6 ins. diam., bears N. 66° E., 13 lks. dist. marked T 4 N., R 8 W., 5 B.T.

No trees being within limits in Secs. 7 and 8, I raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.

Thence N. 89° 13' E., on a TRUE line bet. Secs. 5 and 8 Over N. slope.

1.16

Dry bed of draw, course N.

15.00

Enter scattering juniper, bears N. and S. Thence over a series of spurs and gulches draining N.

40.20

The 1/4 sec. cor., which is a point, from which a juniper, 12 ins. diam., bears S. 65 1/2° E., 1.43 chs. dist., marked 1/4 S. B. T. No trace of other B.T. Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. Sec. 5 only, with brass cap marked

1/4 85

1918

from which

A juniper, 10 ins. diam., bears N. 32-3/4° E., 1.44 chs. dist., marked 1/4 S. 5 B. T.

Thence, from cor. N. 89° 45' E., on a TRUE line bet. Secs. 5 and 8.

0.79

A point 40.00 chs. westerly from the NE cor. of Sec. 8.

Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. of Sec. 8, with brass cap marked

1/4 88

1918

RETRACEMENT OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

A juniper, 12 ins. diam., bears S. 45° E., 76 lks. dist., marked 1/4 S S B T.

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. This cor. is in a gulch draining E. Asc. 120 ft. over W. slope.

13.80
30.60
32.10
38.70
40.03

Spur, slopes N. Desc. 145 ft. over NE slope.

Canyon, course N. Asc. 70 ft. over NW slope.

Private road, bears N. 20° E. and S. 20° W.

Spur, slopes N. Desc. 10 ft. over E. slope.

The cor. of Secs. 4 and 5.

Land, hilly. Soil, sand and gravel; 2nd and 3rd rate.

Timber, scrub juniper. Undergrowth, sage and scrub juniper.

From the cor. of Secs. 5, 6, 7 and 8. --

West on a RANDOM line bet. Secs. 6 and 7.

40.00
80.72

Fall, 77 lks. S. of the 1/4 sec. cor.

Fall 1.31 obs. S. of the cor. of Secs. 6 and 7 on bdy. of Tp. which is a post 4 ins. sq., 24 ins. above a mound of stone, and properly marked. Alongside of the old post I set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of Secs. 6 and 7, with brass cap marked

: T4N
: 86
: 87
: R8W

1918

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, S. of cor. Thence S. 89° 14' E., on a TRUE line bet. Secs. 6 and 7. Over gentle N. slope.

1.19
9.13
9.39
12.50
16.00
40.72

Wash, course N.

Dim road, bears N. and S.

Pipe line from Dead man Creek, bears N. 10° E.

Gulch, course N. Asc. 65 ft. over W. slope.

Thence over rolling N. slope; 20 ins. above mound of stone.

The 1/4 sec. cor. which is a post 4 ins. sq./properly marked Alongside of old post set an iron post 3 ft. long, 1 in. diam. 24 ins. in the ground for 1/4 sec. cor., with brass cap marked

1/4 86
87

1918

Raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Thence S. 88° 54' E., on a TRUE line bet. Secs. 6 and 7. Over nearly level land.

5.00
40.01

Desc. 75 ft. over SE slope.

The cor. of Secs. 5, 6, 7 and 8.

Land, hilly. Soil, sand and gravel, 2nd and 3rd rate.

Timber, scattering juniper. Undergrowth, sage and greasewood.

RETRACEMENT OF THE W. BDY. OF SEC. 7, T. 4 N., R. 8 W.

The cor. of Secs. 7 and 18 on the W. bdy. of the Tp., is a post, 4 ins. sq., 3 ft. above ground, properly marked and witnessed. Alongside of the old post, I set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of Secs. 7 and 18 with brass cap marked.

RETRACEMENT OF THE W. BDY. OF SEC. 7, T. 4 N., R. 8 W.

: T4N
: 8 7
: 818
: R8W

1918

16.23 Raise a mound of stone, 2 ft. base, 1½ ft. high E. of cor.
29.91 Thence N. 0°13' W., on a TRUE line on W. bdy. of Sec. 7, the
40.11 ¼ sec. cor. on the W. bdy. of Sec. 7 being visible,
Over gentle North slope. Thru scattering yucca.
Pipe line from Dead Man Creek, course N. 10° E.
Dim road, bears E. and W.
The ¼ sec. cor., which is a post 3 ins. sq. 24 ins. above
a mound of stone, properly marked and witnessed. Alongside
of the old post, I set an iron post, 3 ft. long, 1 in. dia.
24 ins. in the ground for ¼ sec. cor. of Sec. 7, with
brass cap marked

: 1/4 S 7

1918

2.17 Raise a mound of stone, 2 ft. base, 1½ ft. high E. of cor.
40.17 Thence N. 0°07' E. on a TRUE line on W. bdy. of Sec. 7, the
cor. of Secs. 6 and 7 being visible.
Road, bears N. and S. 20° E.
The cor. of Secs. 6 and 7 heretofore described.
Land, gentle N. slope. Soil, sand and gravel, 3rd rate.
Timber, scattering yucca. Undergrowth, greasewood and sage-
brush.

SURVEY OF THE SUBDIVISIONS OF T 4 N, R 8 W.

(264.00) C.S. 94w-36
255.42 3.87 From the point for cor. of Secs. 13, 14, 23 and 24.
Thence N. 86° 30' W. on a RANDOM line bet. Secs. 14 and 23.
The witness cor. for Secs. 13, 14, 23 and 24.
Thence from W.O. West on a RANDOM line bet. Secs. 14-23, 15-22,
16-21, 17, 20 and 18-19.
36.13 Make diligent search, but find no trace of ¼ sec. cor. bet.
Secs. 14 and 23. Set temp. cor.
73.82 The cor. of Secs. 14, 15, 22 and 23.
114.26 The ¼ sec. cor. bet. Secs. 15 and 22.
154.31 The cor. of Secs. 15, 16, 21 and 22.
193.19 Fall 14 lks. S. of the ¼ sec. cor. bet. Secs. 16 and 21.
234.50 Fall 1 lk. S. of the W.O. for Secs. 16, 17, 20 and 21.
275.84 Fall 21 lks. S. of the witness ¼ sec. cor. bet. Secs. 17
and 20.
306.87 Fall 46 lks. S. of cor. of Secs. 17, 18, 19 and 20.
344.70 Fall 48 lks. S. of the ¼ sec. cor. bet. Secs. 18 and 19.
399.36 Fall 63 lks. S. of the closing cor. of Secs. 18 and 19
on the W. bdy. of the Tp. hereinafter described.
I return to the point for cor. of Secs. 13, 14, 23 and 24.
Thence N. 86° 30' W. on a TRUE line bet. Secs. 14 and 23.
Desc. 40 ft. over W. slope.
2.50 Cut channel, 30 lks. wide, 8 ft. deep, course N.
3.87 The witness cor. for Secs. 13, 14, 23 and 24, which is a post
4 ins. sq. 24 ins. above a mound of stone, and properly
marked. The same being visible from the cor. of Secs.
13, 14, 23 and 24.
Thence from witness cor. West on a TRUE line bet. Secs.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

14 and 23.
 1.30 Gulch, course N. Asc. 460 ft. over NE slope.
 13.00 Spur, slopes N. Desc. 40 ft. over NW slope.
 25.00 Gulch, course N.E. Asc. 100 ft. over E. slope.
 31.00 Ridge, bears N. and S. Desc. 170 ft. over W. slope.
 36.13 A point 40.00 chs. W. of the cor. of Secs. 13, 14, 23 and 24. Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for the 1/4 sec. cor. of Sec. 14 only, with brass cap marked.

1/4 S 14
1918

36.30 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.
 41.00 Canyon, course N. Asc. 75 ft. over NE slope.
 67.00 Spur, slopes N. Enter scattering timber, bears N. and S.
 73.82 Desc. 260 ft. over W. slope.
 Gulch, course NW. Thence over gentle N. slope.
 The cor. set by the Deputy for the cor. of Secs. 14, 15, 22 and 23 which is a post 4 ins. sq., 24 ins. above ground marked and witnessed as described by the Surveyor General. As the cor. is in error in position, I destroy the same.
 77.26 A point 79.52 chs. S. of cor. of Secs. 10, 11, 14 and 15. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of Secs. 14, 15, 22 and 23, with brass cap marked

T4N : R8W
S15 : S14
S22 : S23
 1918

from which

A yerbo el pascu. 6 ins. diam., bears N. 17 1/2° E., 65 lks. dist., marked T. 4 N., R. 8 W., S. 14 B.T.
 A pine, 12 ins. diam., bears S. 17 1/2° E., 90 lks. dist. marked T 4 N, R 8 W, S 23 B.T.
 A pine 14 ins. diam., bears S. 6° W., 94 lks. dist. marked T 4 N, R 8 W., S 22 B.T.
 A slippery elm, 5 ins. diam., bears N. 15° W., 64 lks. dist., marked T. 4 N., R. 8 W., S. 15 B.T.
 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
 Land, mountainous. Soil, sand and gravel, 2nd and 3d rate.
 Timber, scattering pine and slippery elm.
 Undergrowth, sage, manzanita and chaparral.

SURVEY OF THE SUBDIVISIONS OF T 4 N., R. 8 W.

14.00 Thence, West on a sectional correction line bet. Secs. 15 and 22, over gentle E. slope. Thru scattering timber.
 15.83 Base of ridge bearing N. and S. Asc. 45 ft. over E. slope.
 28.07 Ridge, bears N. and S. Desc. 75 ft. over NW slope.
 31.67 Draw, course N. Asc. 40 ft. over E. slope.
 36.98 Spur, slopes N. Thence over broken N. slope.
 The 1/4 sec. cor. which is a post 4 ins. sq. 24 ins. above ground marked and witnessed as described by the Surveyor General. This cor. being defective as to position, I destroy the same.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor., with brass cap marked

1/4 S15
S22
 1918

from which

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

40.48 A pine 8 ins. diam. bears N. 75° W., 22 lks. dist., marked 1/4 S. 15 B.T.
 44.00 A pine 12 ins. diam., bears S. 5° W., 5 lks. dist., marked 1/4 S. 22 B.T.
 47.83 Draw, course N. Asc. 60 ft. over E. slope.
 58.85 Spur, slopes NE. Desc. 35 ft. over NW. slope.
 61.90 Gulch, course N. Asc. 130 ft. over E. slope.
 70.58 Top of steep clay bank bearing N. and S. Thence over gentle N. slope. Leave timber, bears N. and S.
 74.58 Old irrigation ditch (dry), course NE.
 77.03 Old irrigation ditch (dry), course N.
 Enter plowed field, bears N. and S.
 The Deputy's cor. of Secs. 15, 16, 21 and 22, which is a sq. hollow iron post 4 ins. sq. on top, with concrete marked and witnessed as described by the Surveyor General. This cor. being defective in position, I destroy the same.
 79.00 Leave plowed field. Enter timber, bears N. and S.
 80.00 Set iron post 3 ft. long, 2 ins. diam. 24 ins. in the ground for cor. of Secs. 15, 16, 21 and 22, with brass cap marked

T4N : R8W
 S16 : S15
 S21 : S22

1918

from which

A pine, 8 in. diam., bears N. 76½° E., 79 lks. dist. marked T. 4 N., R. 8 W., S. 15 B.T.
 An oak, 4 ins. diam., bears S. 47½° E., 50 lks. dist. marked T. 4 N., R. 8 W., S. 22 B.T.
 A pine, 6 ins. diam., bears S. 33° W., 62 lks. dist. marked T. 4 N., R. 8 W., S. 21 B.T.
 A pine, 10 ins. diam. bears N. 18° W., 38 lks. dist. marked T. 4 N., R. 8 W., S. 16 B.T.

Land, broken. Soil, sand, clay and gravel; 2nd and 3rd rate. Timber, scattering pine and oak.
 Undergrowth, sage, manzanita and chaparral.

3.90 Thence, West on a sectional ~~CORRECTION~~ line bet. Secs. 16 and 21, over gentle N. slope. Thru scattering timber.
 7.60 Leave scattering timber, bears N. and S. Mescal Creek, 20 lks. wide, 8 ins. deep, course N. Asc. 350 ft. over NE slope.
 9.80 Read down canyon, bears N. and S.
 12.00 Irrigation ditch with stream 5 lks. wide, 4 ins. deep, course N.
 23.55 Enter scattering timber, bears N. and S.
 27.82 Spur, slopes N. 20° E. Desc. 115 ft. over W. slope.
 31.47 Canyon, course N. Asc. 60 ft. over NE slope.
 33.96 Spur, slopes N. Desc. 30 ft. over NW slope.
 35.98 Gulch, course NE. Asc. 75 ft. over SE slope.
 Fall 14 lks. S. of the Deputy's 1/4 sec. cor. which is a pine tree, 20 ins. diam., marked as described by the Surveyor General. This cor. being defective in position, I destroy the marks on same. Asc. 75 ft. over SE slope.
 40.00 Set an iron post 3 ft. long, 1 in. diam., 12 ins. in the ground to bedrock, for 1/4 sec. cor., with brass cap marked

1/4 $\frac{S16}{S21}$
 1918

from which

SURVEY OF THE SUBDIVISION OF T. 4 N., R. 8 W.

A pine 18 ins. diam., bears N. $76\frac{1}{2}^{\circ}$ E., 90 links dist., marked $\frac{1}{4}$ S. 16 B.T.

A pine 18 ins. diam. bears S. 25° E., 89 lks. dist., marked $\frac{1}{4}$ S. 21 B.T.

Asc. 70 ft. over SE slope.

44.50 Ridge, bears N. and S. Desc. 110 ft. over W. slope.

49.58 Canyon, course N. Asc. 140 ft. over NE slope.

58.00 Spur, slopes N. Desc. 150 ft. over NW slope.

63.08 Ravine, course N. Asc. 130 ft. over NE slope.

67.15 Spur, slopes N. Desc. 120 ft. over NW slope.

71.02 Ravine, course N. Asc. 150 ft. over NE slope.

77.22 Fall 1 lk. S. of the witness cor. of Secs. 16, 17, 20 and 21, which is a post 4 ins. sq. 24 ins. long, marked and witnessed as described by the Surveyor General. This cor. being defective in position, I destroy the same.

77.87 Spur slopes N. Desc. 65 ft. over NW slope.

80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of Secs. 16, 17, 20 and 21, with brass cap marked

T4N : R8W

817 : 816

820 : 821

1918

from which

A slippery elm, 5 ins. diam., bears N. 79° E., 61 lks. dist., marked T. 4 N., R. 8 W., S. 16 B.T.

A live oak, 16 ins. diam., bears S. 20° E., 60 lks. dist., marked T. 4 N., R. 8 W., S. 21 B.T.

A pine, 6 ins. diam., bears S. 51° W., 14 lks. dist., marked T. 4 N., R. 8 W., S. 20 B.T.

A pine, 8 ins. diam., bears N. $36\frac{1}{2}^{\circ}$ W., 51 lks. dist., marked T. 4 N., R. 8 W., S. 17 B.T.

Land, mountainous. Soil, sand, clay and rock; 3rd and 4th rate. Timber, pine and oak. Undergrowth, manzanita, sage and chaparral.

Thence West on a Section CORRECTION line bet. Secs. 17 and 20. Desc. 20 ft. over NW slope, thru timber.

0.60 Ravine, course N. Asc. 50 ft. over NE slope.

3.90 Spur, slopes N. Desc. 30 ft. over NW slope.

5.60 Gulch, course N. Asc. 30 ft. over NE slope.

9.37 Spur, slopes N. Desc. 100 ft. over NW slope.

20.30 Canyon, course N. Asc. 220 ft. over NE slope.

30.14 Spur, slopes N. Desc. 67 ft. over NW slope.

33.77 Ravine, course N. Asc. 140 ft. over NE slope.

38.56 Fall 21 lks. S. of witness $\frac{1}{4}$ sec. cor. which is a post 3 ins. sq., 3 ft. long, marked and witnessed as described by the Surveyor General. This cor. being defective in position I destroy the same.

40.00 Set an iron post 3 ft. long 1 in. diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ $\frac{817}{820}$

1918

from which

A pine, 8 ins. diam., bears N. 33° E., 32 lks. dist., marked $\frac{1}{4}$ S. 17 B. T.

A pine, 10 ins. diam., bears S. 38° E., 15 lks. dist., marked $\frac{1}{4}$ S. 20 B.T.

This cor. is on a spur sloping N. Thence over broken N.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

- slope
61.00 Spur, slopes NE. Desc. 250 ft. over SW slope.
69.50 Fall 46 lks. S. of the Deputy's cor. of secs. 17, 18, 19 and 20, which is a post 4 ins. sq., 40 ins. above ground marked and witnessed as described by the Surveyor General. This cor. being defective in alignment and measurement, I destroy the same.
- 77.83 Boulder Creek, 5 lks. wide, 6 ins. deep, course N. Asc. 20 ft. over NE slope.
80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap marked
- T4N : R8W
S16 : S17
S19 : S20
1918
- from which
- A pine, 8 ins. diam. bears N. 16° E., 42 lks. dist., marked T 4 N, R 8 W, S 17 B. T.
A pine 4 ins. diam., bears S. 32° E., 26 lks. dist. marked T 4 N, R 8 W, S 20 B. T.
A double live oak, 18 ins. diam. bears S. 66½° W., 78 lks. dist., marked T 4 N, R 8 W, S 19 B. T.
A pine 8 ins. diam., bears N. 55° W., 43 lks. dist., marked T 4 N, R 8 W, S 18 B. T.
Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Land, mountainous. Soil, sand and rock, 3rd and 4th rate. Timber, pine and oak. Undergrowth, manzanita, sage and chaparral.
-
- Thence, West on a SECTIONAL CORRECTION line bet. secs. 18 and 19. Over N. slope. Thru scattering timber.
2.20 Asc. 300 ft. up a draw draining E.
26.31 Ridge, bears N. and S. Thence over broken N. slope.
27.42 Fall 48 lks. S. of the 1/4 sec. cor., which is a post 3 ins. sq. 3 ft. long, marked and witnessed as described by the Surveyor General. This cor. being defective in position I destroy the same and the markings on accessories.
- Desc. 75 ft. over NW slope.
31.06 Draw, course N. Asc. 40 ft. over NE slope.
33.36 Ridge, bears NW and SE. Desc. 70 ft. over SW slope.
40:00 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. with brass cap marked
- 1/4 S18
S19
- 1918
- from which
- A pine, 6 ins. diam., bears N. 73° E., 31 lks. dist., marked 1/4 S. 18 B. T.
A pine, 15 ins. diam., bears S. 24° E., 14 lks. dist., marked 1/4 S. 19 B. T.
Desc. 230 ft. over SW slope.
59.27 Gulch, course NW. Asc. 50 ft. over NE slope.
67.14 Spur, slopes NW. Desc. 330 ft. over SW slope.
75.74 Gulch, course NW. Continue descent 40 ft. over NW slope.
82.08 Intersect the W. bdy. of the Tp. 63 lks. S. of the closing cor. set by the Deputy for secs. 18 and 19, which is a sq. hollow iron post, marked and witnessed as described by the Surveyor General. This cor. being defective in position I destroy the same and markings on accessory. At my falling point I set an iron post 3 ft. long, 2 ins. diam., 24 ins.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

in the ground for cor. of Secs. 18 and 19 on W. bdy. of Tp., with brass cap marked

+ T4N
: S18
: S19
: RSW

1918

from which

A pine, 12 ins. diam., bears N. 35° E., 10 lks. dist.

marked T 4 N, R 8 W, S 18 B T

A live oak, 8 ins. diam., bears S. 64° E., 1.75 chs. dist.

marked T 4 N, R 8 W, S 19 B T

Land, mountainous, Soil, sand and rock; 3rd and 4th rate. Timber, scattering pine and oak. Undergrowth, manzanita and chaparral.

RESURVEY OF W. BDY. OF SEC. 18 of T. 4 N., R. 8 W.

From the cor. of secs. 18 and 19 on W. bdy. of Tp. heretofore described.

Thence North on a RANDOM line on W. bdy. sec. 18.

Fall at the old 1/4 sec. cor.

Fall 1 lks E of closing cor. secs. 12 and 13 of T.4 N., R.9W.

Fall 1 lks E of the cor. of secs. 7 and 18, heretofore described.

I return to the cor. of secs. 18 and 19.

Thence from cor. North on a TRUE line on W. bdy. of sec.18 Desc. 10 ft. over N. slope. Thru scattering timber.

Gulch, course W. Asc. 20 ft. over S. slope.

Spur, slopes W. Desc. 50 ft. over NW slope.

Ravine, course W. Asc. 260 ft. over broken SW slope.

Spur, slopes W. Desc. 207 ft. over NE slope.

Draw, course N. 20° W. Asc. 30 ft. over SW slope.

Spur, slopes N. 75° W. Desc. 50 ft. over NW slope.

The 1/4 sec. cor., which is a post 3 ins. sq., 24 ins. above ground marked and witnessed as described by the Surveyor General. This cor. being defective in position, I destroy markings on same and the B. T. and mark cor. A.P. for angle point and mark the old bearing tree APBT. Thence N.0°01' W. on TRUE line on the W. bdy. sec. 18, counting distance from the cor. of secs. 18 and 19.

Ravine, course N. 80° W.

Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. of sec. 18 only, with brass cap marked

: 1/4 S18

1918

from which

A pine, 8 ins. diam., bears S. 29° E. 23 lks. dist., marked 1/4 S 18 B T. Asc. 100 ft. over SW slope.

Ridge, bears W. and SE Desc. 80 ft. over NE slope.

Gulch, course NW. Thence over broken W. slope.

Spur, slopes W. Desc. 230 ft. over NW. slope. Leave timber bears E. and W.

Trail, bears NE and SW Asc. 40 ft. over S. slope

The closing cor. of secs. 12 and 13 of T. 4 N., R. 9 W.

which is a post 4 ins. sq., 24 ins. above a stone mound, marked and witnessed as described by the Surveyor General. This cor. is near the top of a small round hill. Desc. 40 ft. over N. slope.

The cor. of secs. 7 and 18 on the W. bdy. of Tp., heretofore

RESURVEY OF W. BDY. OF SEC. 18 OF T.4 N., R.8 W.

described.

Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, scattering pine and yucca. Undergrowth, sage,
manzanita and chaparral.

SURVEY OF THE SUBDIVISIONS OF T.4 N., R.8 W.

40.00 From the cor. of secs. 10, 11, 14 and 15, heretofore described. South on a RANDOM line bet. secs. 14 and 15.
79.52 Set temp. 1/4 sec. cor.
The cor. of secs. 14, 15, 22 and 23 heretofore described.
I return to the cor. of secs. 10, 11, 14 and 15.
Thence South on a TRUE line bet. secs. 14 and 15. Asc.

25.72 290 ft. over NW slope.
34.49 Spur, slopes W. Desc. 80 ft. over SW slope.
39.76 Canyon, course NW. Asc. 105 ft. over N. slope
Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the
ground for 1/4 sec. cor., with brass cap marked

1/4
S15 : S14
1918

46.89 Raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of cor.
58.30 Asc. 70 ft. over N. slope.
79.52 Ridge, bears N. and SE. Desc. 250 ft. over SW slope.
Canyon, course NW. Asc. 75 ft. over rocky N. slope.
The cor. of secs. 14, 15, 22 and 23.
Land, mountainous. Soil, sand and gravel; 2nd and 3rd rate
Only a few scattering pines near line. Undergrowth, sage
and manzanita.

40.00 From the cor. of secs. 10, 11, 14 and 15, heretofore described West on a RANDOM line bet. secs. 10 and 15.
80.27 Set temp. 1/4 sec. cor.
A point 39.29 chs. S. of the original 1/4 sec. cor. bet.
secs. 9 and 10 hereinafter described. Set an iron
post 3 ft. long 2 ins. diam., 24 ins. in the ground
for cor. of secs. 9, 10, 15 and 16 with brass cap
marked

T4N : R8W
89 : S10
S16 : S15
1918

0.10 A yucca, 8 ins. diam., bears N. 69 1/2° E., 68 lks. dist.,
marked X
12.45 A yucca, 6 ins. diam., bears S. 26 1/2° E., 57 lks. dist.,
marked X
19.55 A yucca, 6 ins. diam. bears S. 55 1/2° W., 1.11 chs. dist.,
marked X
A yucca, 6 ins. diam., bears N. 38° W., 52 lks. dist.,
marked X
Raise a mound of stone, 2 ft. base, 1 1/2 ft. high W. of
cor. Thence East on a TRUE line bet. secs. 10 and
15. Over gentle slope. Thru scattering yucca.
Irrigation ditch with stream 61 lks. wide, 6 ins. deep,
course N.
Road, bears N. and S.
Mescal Creek, 20 lks. wide, 6 ins. deep, course N.
Asc. 160 ft. over W. slope.

SURVEY OF THE SUBDIVISIONS OF T.4 N., R.8 W.

RETRACEMENT AND SURVEY OF LINE BET. SECS. 9

25.19 Ridge, bears N. 20° W. and S. 20° E. Desc. 120 ft. over N.E. slope.

32.78 Draw, course N. Asc. 30 ft. over N.W. slope.

37.07 Ridge, bears N. and S. Desc. 85 ft. over S.E. slope.

40.13 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. with brass cap marked

10.00 A juniper 6 ins. diam., bears N. 151° E., 1.56 chs. dist. marked 1/4 S. 10 B. T.

35.00 A pine 8 ins. diam., bears S. 60° E., 1.49 chs. dist., marked 1/4 S. 15 B. T. and 16, heretofore described.

39.29 Deep. 50 ft. over E. slope.

43.95 Canyon, course N. Asc. 100 ft. over N.E. slope.

49.87 Spur, slopes N. Desc. 50 ft. over N.E. slope.

52.72 Draw, course N. Asc. 35 ft. over N.W. slope.

54.37 Spur slopes N. descending 233 ft. over E. slope.

74.80 Canyon, course N. Thence over N. slope of wide bottom of canyon.

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

40.00 Land mountainous. Soil, sand and gravel; 2nd and 3rd rate.

79.98 Timber, scattering yucca and a few pines and junipers.

10.00 Undergrowth, sage; the cor. of secs. 9, 10, 15 and 16.

35.00 Thence S. 1/4° E. on a TRUE line bet. secs. 15 and 16.

39.76 Over gentle E. slope. Thru scattering yucca and juniper.

RETRACEMENT AND SURVEY OF LINE BET. SECS. 9 and 10

Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. of sec. 9 only, with brass cap marked

41.09 Thence from cor. South, on a RANDOM line bet. secs. 9 and 10.

39.29 The cor. of secs. 9, 10, 15 and 16, heretofore described. I return to the cor. of secs. 3, 4, 9 and 10.

8.43 Thence S. 1-30' E., on a TRUE line bet. secs. 9 and 10.

9.43 Over gentle E. slope. Thru juniper timber.

32.06 Irrigation ditch, 4 lks. wide, 4 ins. deep, course N. 20° W.

40.20 Dia road, bears N. 20° E. and S. 20° W.

79.57 Same irrigation ditch, course N. 20° E.

Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for 1/4 sec. cor. of sec. 9 only, with brass cap marked

41.10 The Deputy's 1/4 sec. cor. bet. secs. 9 and 10, which is a post 4 ins. sq., 24 ins. above ground marked and witnessed as described by the Surveyor General. As this now becomes the 1/4 sec. cor. fro sec. 10 only, I deface the markings on post and bearing tree referring to sec. 9. Alongside of the old post, I set an iron post 3 ft. long, 1 in. diam. 24 ins. in the ground for 1/4 sec. cor. of sec. 10, with brass cap marked

16.

17.

18.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

SS : S9
T4N : R8W
1918

from which

A juniper, 6 ins. diam. bears S. 40° E., 1.00 chs. dist.,
marked T 4 N, R 8 W, S 9 E. T.
A juniper, 8 ins. diam. bears S. 75° W., 93 lks. dist.,
marked T 4 N, R 8 W, S 8 E. T.
Thence South on a TRUE line bet. secs. 8 and 9.
Asc. 30 ft. over N. slope.
20.00 Spur, slopes W. Desc. 115 ft. over SW. slope.
29.50 Canyon, course N.W. Asc. 150 ft. over N.E. slope.
38.37 Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the
ground for 1/4 sec. cor. with brass cap marked

1/4
SS : S9
:
1918

Raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of
cor.
39.00 Spur, slopes N.W. Desc. 60 ft. over S.W. slope.
47.70 Ravine, course W. Asc. 75 ft. over N. slope.
50.20 Spur, slopes N.W. Desc. 20 ft. over S.W. slope.
54.50 Gulch, course N.W. Asc. 60 ft. over N. slope.
57.30 Ridge, bears N.W. and S.E. Desc. 100 ft. over S.W. slope.
78.37 The cor. of secs. 8, 9, 16 and 17.
Land, mountainous. Soil, sand and gravel; 2nd and 3rd rate.
Timber, scattering yucca. Undergrowth, sage and scrub
juniper.

From the cor. of secs. 7 and 18 on W. bdy. of Tp. heretofore
described.
Thence East, on a blank line bet. secs. 7 and 18.
40.00 Set temp. 1/4 sec. cor.
80.72 A point 78.98 chs. S. 0°01' E. from the cor. of secs. 5, 6, 7
and 8. Set temp. cor. for sec. 7.
From the cor. of secs. 8, 9, 16 and 17.
Thence West, on a blank line bet. secs. 8 and 17.
40.00 Set temp. 1/4 sec. cor.
81.12 A point 1.16 chs. N. 0°01' W. from temp. cor. set for sec. 7
Set temp. cor. of secs. 8 and 18.
From the cor. of secs. 17, 18, 19 and 20, heretofore described.
Thence, N. 0°01' W., on a blank line bet. secs. 17 and 18.
40.00 Set temp. 1/4 sec. cor.
79.90 Fall 1.12 chs. E. of temp. cor. set for secs. 8 and 18. Set
temp. cor. for secs. 17 and 18.
From the cor. of secs. 5, 6, 7 and 8, heretofore described
Thence S. 0°01' E., on a blank line bet. secs. 7 and 8.
40.00 Set temp. 1/4 sec. cor.
77.82 The temp. cor. set for secs. 8 and 18.
78.95 The temp. cor. set for sec. 7. Set an iron post 3 ft. long,
2 ins. diam., 24 ins. in the ground for cor. of sec. 7,
with brass cap marked

T4N :
R8W :
87 :
1918

SURVEY OF THE SUBDIVISIONS OF T.4 N., R.8 W.

- 1.16 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N.W. of cor. Thence N. $0^{\circ}01'$ W., on a TRUE line bet. secs. 7 and 18. Over gentle N. slope of wide bottomed draw. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 8 and 18, with brass cap marked
: T4N
: S8
: S18
: R8W
1918
- 38.98 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor. Thence N. $0^{\circ}01'$ W., on a TRUE line bet. secs. 7 and 8, counting dist. from the cor. of sec. 7. Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor. sec. 7 with brass cap marked
 $\frac{1}{4}$ S7:
1918
- 41.16 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Set an iron post 3 ft. long, 1 in. diam. 24 ins. in the ground for $\frac{1}{4}$ sec. cor. sec. 8 with brass cap marked
:
: $\frac{1}{4}$ S8
:
1918
- 43.16 Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor.
78.98 Wire fence, bears E. and W.
The cor. of secs. 5, 6, 7 and 8 heretofore described.
Land, gentle north slope down wide bottom of canyon.
Soil, sand 2nd and 3rd rate. No timber except a few scattering yucca. Undergrowth, sage and greasewood.

From the cor. of secs. 17, 18, 19 and 20.
Thence N. $0^{\circ}01'$ W., on a TRUE line bet. secs. 17 and 18.
Asc. 30 ft. over S.E. slope. Thru scattering timber.
Rocky spur, slopes E. Desc. 50 ft. over N. slope.
Boulder Creek, 6 lks. wide, 6 ins. deep, course N. 10° .
Asc. 80 ft. over broken S.W. slope.
Ridge, bears N.W. and S.E. Desc. 110 ft. over N. slope.
Set an iron post 3 ft. long, 1 in. diam., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked
 $\frac{1}{4}$
S18: S17
:
1918
A pine, 8 ins. diam. bears N. $47\frac{3}{4}^{\circ}$ W., 67 lks. dist. marked $\frac{1}{4}$ S 18 E. T.
A pine, 20 ins. diam., bears S. $40\frac{1}{2}^{\circ}$ E., 81 lks. dist. marked $\frac{1}{4}$ S 17 E. T.
Desc. 630 ft. over N. slope.
58.00 Base of mountain bearing E. and W. Thence over more gradual N. slope. Leave timber, bears E. and W.
61.60 Trail, bears E. and W. Wm. Hagenbaum's log house bears W. about 6.50 chs. dist.
79.90 Fall 1.12 chs. E. of the cor. of secs. 8 and 18. Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17 and 18, with brass cap mkd.
T4N: R8W
S18: S17
:
1918
Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Land, mountainous. Soil, sand and rock; 3rd and 4th rate.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

Timber, pine and scattering yucca.
Undergrowth, sage, manzanita and chaparral.

From the cor. of secs. 8, 9, 16 and 17.
West, on a TRUE line bet. secs. 8 and 17.
Over gentle N. slope. Thru scattering timber.
Draw, course N. Thence over N.E. slope.
Private road, bears N. and S.
Karl Hagenbaum's house bears S. 8° E. $\sqrt{4}$
Set an iron post 3 ft. long 1 in. diam., 24 ins. in the
ground for 1/4 sec. cor., with brass cap marked

1/4 $\frac{88}{817}$

1918 from which
A yucca, 8 ins. diam., bears N. 14½° E., 30 lks. dist.
marked X
A juniper, 5 ins. diam., bears S. 13° E., 1.19 chs. dist.,
marked 1/4 S 17 B T
Raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Karl Hagenbaum's house bears S. 19°40' E.
Asc. 165 ft. over E. slope.
Ridge, bears N. and S. Desc. 175 ft. over S.W. slope.
Draw, course N. Thence over rolling N. slope.
The cor. of secs. 17 and 18 heretofore described.
The cor. of secs. 8 and 18 heretofore described.
Land, hilly and rough. Soil, sand, clay and gravel, 2nd
and 3rd rate.
Timber, scattering yucca, pine and some juniper.
Undergrowth, sage.

From the cor. of secs. 7 and 18 on W. bdy. of Tp. heretofore
described.
East on a TRUE line bet. secs. 7 and 18. Over rolling N.
slope.
Draw, course N. Asc. 40 ft. over W. slope.
Ridge, bears N. and S. Desc. 90 ft. over N.E. slope.
Gulch, course N. Asc. 60 ft. over N.E. slope.
Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground for 1/4 sec. cor. sec. 7, with brass cap marked

1/4 $\frac{87}{1918}$

Raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground for 1/4 sec. cor. sec. 18, with brass cap marked

1/4 $\frac{818}{1918}$

Raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor.
Ridge, bears N. and S. Desc. 75 ft. over N.E. slope.
Gulch, course N. Asc. 50 ft. over N.W. slope.
Ridge, bears N. and S. Desc. 140 ft. over E. slope.
Boulder Creek (dry) course N. Thence over gentle N. slope.
The cor. of sec. 7 heretofore described.
Land broken. Soil, sand, clay and gravel, 2nd, 3rd and 4th
rates. Timber, scattering pine and yucca. Undergrowth
sage and greasewood.

RETRACEMENT OF A PORTION OF THE E. BDY. OF
T. 4 N., R. 9 W.

Survey commenced by W. J. Lightfoot, March 7, 1919, and executed with a Buff & Buff light mountain transit No. 9305 with solar attachment. The horizontal limb is provided with the double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during P. M. and A. M. hours with a meridian determined by observation on Polaris, I proceed as follows:

Near the cor. of Tps. 4 and 5 N., Rs. 8 and 9 W., S. B. M. latitude $34^{\circ}25'$ N., longitude $117^{\circ}46'$ W. of Greenwich, I set off $34^{\circ}25'$ on the lat. arc, $5^{\circ}20'$ S. on the decl. arc and at 3h 0m P.M., l.m.t., determine a meridian with the solar and mark a point thereof by a tack in a wooden peg set firmly in the ground five chains north of my station.

At 5h 25^am P.M., l.m.t., I observe Polaris at western elongations in accordance with Manual of Instructions, and mark a point in the line thus determined by a tack in a stake firmly set in the ground five chains north of my station.

March 7, 1919.
March 8, 1919: At 5h 0m A.M., l.m.t., I lay off the azimuth of Polaris $1^{\circ}22'$ to the east and mark the meridian thus determined by a tack in the stake already set 5 chains north of my station. This meridian falls 0.3 ins. east of the mark determined by the solar.

At 5h 10m., l.m.t., I set off $34^{\circ}22'$ on the latitude arc, $5^{\circ}05'$ on the decl. arc and mark a point in the meridian thus determined with the solar by a tack driven in the stake already set five chains north of my station. This mark falls 0.1 ins. east of the meridian established by the Polaris observation. The three meridians fall within an arc of $1'$ therefore I conclude that the adjustments of the instrument are satisfactory.

The instrument was maintained in adjustment throughout the survey.

The measurements were made with a five chain steel tape graduated to links. Slope angles were measured with a clinometer and the slope distances were reduced to the horizontal.

From the cor. of secs. 18 and 19 on the W. bdy. of the Tp. previously described.

South on a RANDOM line on the E. bdy. of secs. 13 and 24.

8.49

The original cor. of secs. 13 and 24.

48.49

The original $1/4$ sec. cor. of the E. bdy. of sec. 24.

88.49

The original cor. of secs. 24 and 25.

I return to the above mentioned cor. of secs. 18 and 19.

Thence South on a TRUE line on W. bdy. sec. 19.

RETRACEMENT OF A PORTION OF THE E. BDY.
T. 4 N., R. 9 W.

- 8.49 The original cor. of secs. 13 and 24, which is an old oak post 4 x 4 ins. 12 ins. above ground, marked and witnessed as described by the Surveyor General.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for 1/4 sec. cor. for sec. 19 only of R. 8 W., with brass cap marked
- : 1/4
: S19
:
1919 and raise a mound of stone
- 45.49 2 ft. base, 1 1/2 ft. high E. of cor.
The original 1/4 sec. cor. of secs. 19 and 24, which is an old oak post 4 x 4 ins. 12 ins. above ground, marked and witnessed as described by the Surveyor General. This cor. now becomes the 1/4 sec. cor. for sec. 24 of R. 9 W., I therefore destroy the marks on the cor. referring to R. 8 W.
- 50.00 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 19 and 30 of R. 8 W., with
b brass cap marked
- : T4N
: S19
: S30
: R8W
1919 and raise a mound of stone
- 88.49 2 ft. base, 1 1/2 ft. high E. of cor.
The cor. of secs. 19, 24, 25 and 30, which is an old oak post, 4 x 4 ins. 16 ins. above ground, marked and witnessed as described by the Surveyor General. This cor. now becomes the cor. of secs. 24 and 25 of R. 9 W. I therefore destroy the marks on the cor. referring to secs. in R. 8 W.

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

- From the cor. of secs. 17, 18, 19 and 20, heretofore described S. 0°01' E., on a TRUE line bet. secs. 19 and 20.
- 7.70 Asc. 320 ft. over N.E. slope. Thru scattering timber.
- 38.62 Spur, slopes E. Desc. over S.E. slope.
- 40.00 Trail, bears E. and W.
Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for 1/4 section cor. with brass cap marked
- 1/4
S19:S20
1918 from which
- A pine, 6 ins. dia., bears N. 38° W., 1.53 chs. dist.
marked 1/4 S 19 E T
- A pine, 5 ins. dia., bears S. 45° E., 2.37 chs. dist.
marked 1/4 S 20 E T
- 45.35 This 1/4 sec. cor. is in a wide draw draining E.
- 61.17 Spur, slopes S.W. Desc. 125 ft. over S. slope.
- 77.30 Canyon, course S.W.
- 79.30 Spur, slopes W. Desc. 50 ft. over S. slope.
- 80.00 Gulch, course S.W. Thence over W. slope.
Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap marked
- T4N : R8W
S19 : S20
S30 : S29
1918 from which

SURVEY OF THE SUBDIVISIONS OF T.4 N., R.8 W.

A pine, 18 ins. dia., bears N. 49° E., 27 lks. dist.
marked T. 4 N., R. 8 W., S 20 B T
A pine, 20 ins. dia., bears S. 22½° E., 22 lks. dist.
marked T. 4 N., R. 8 W., S 29 B T
A pine, 18 ins. dia., bears S. 41° W., 56 lks. dist.,
marked T. 4 N., R. 8 W., S 19 B T
A pine, 5 ins. dia., bears N. 39° W., 66 lks. dist.,
marked T. 4 N., R. 8 W., S 19 B T
Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, pine and scrub oak. Undergrowth, chaparral, man-
zanita and sage.

Thence West on a RANDOM line bet. secs. 19 and 30.
Set temp. 1/4 sec. cor.
Intersect W. bdy. of Tp. 21 lks. N. of the cor. of secs.
19 and 30, heretofore described.
Thence N. 89°51' E. on a TRUE line bet. secs. 19 and 30.
Over rough mountainous land, thru dense undergrowth of
scrub oak, chaparral and manzanita.
Desc. 250 ft. over E. slope to
Dry gulch, 15 lks. wide, course N. Asc. 40 ft. to
Side hill spur, bears N. Desc. 50 ft. along N. slope to
Creek, 4 lks. wide, in Grandview canyon, course N.W.
Asc. 50 ft. to
Side hill spur, bears S. Desc. 30 ft. to
Dry ravine, 10 lks. wide, course S. Asc. 30 ft. to
Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for 1/4 sec. cor., with brass cap marked

1/4 ~~819~~
830

1919 and raise a mound of stone
2 ft. base, 1½ ft. high N. of cor. Asc. 115 ft. to
Side hill spur, bears S. Desc. 160 ft. over E. slope to
Creek, 6 lks. wide, in E. fork of Grandview canyon.
Course N.W.
Side hill spur, bears S. Desc. 55 ft. to
Dry ravine, 10 lks. wide, course S. Asc. 50 ft. to
Side hill spur, bears S. Desc. 25 ft. to
Gulch, 15 lks. wide, course S.W. Asc. W. slope 30 ft.
to
The cor. of secs. 19, 20, 29 and 30.
Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, scattering pine, juniper and oak.
Undergrowth, chaparral, manzanita and scrub oak.

Thence S. 0°01' E. on a TRUE line bet. secs. 29 and 30.
Over broken N.W. slope, thru scattering pine.
Spur, slopes W. Desc. 190 ft. over S.W. slope. Leave
timber, bears E. and W.
Canyon with stream 8 lks. wide, 6 ins. deep, course N.
75° W. Asc. 220 ft. over broken N. slope. Thru
dense chaparral.
Ridge, bears N.W. and S. Desc. 40 ft. over S.W. slope.
Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the
ground, for 1/4 sec. cor. with brass cap marked

1/4
830 : 829
1918

and raise a mound of

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

stone, 2 ft. base, 1½ ft. high W. of cor. Asc. 40 ft.
over broken N. slope.
59.50 Top of knoll. Desc. 85 ft. over S. slope.
64.82 Stream, 15 lks. wide, 6 ins. deep, course N. 75° E.
Asc. 120 ft. over N.W. slope.
65.42 Road to sawmill, bears E. and W.
75.50 Spur, slopes W. Desc. 40 ft. over steep S.W. slope.
77.53 Stream, 15 lks. wide, 8 ins. deep, course N. 20° W.
Asc. 10 ft. over N.E. slope. Enter pine, bears E. and W.
80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the
ground, for cor. of secs. 29, 30, 31 and 32, with
brass cap marked

T4N : R8W

S30 : S29

S31 : S32

1918

from which

A cedar, 8 ins. dia., bears N. 61½° E., 60 lks. dist.
marked T. 4 N., R. 8 W., S 29 B. T.
A fir, 56 ins. dia., bears S. 33° E., 41 lks. dist.,
marked T. 4 N., R. 8 W., S 32 B. T.
An oak, 8 ins. dia., bears S. 10½° W., 74 lks. dist.
marked T. 4 N., R. 8 W., S. 31 B.T.
A pine, 28 ins. dia., bears N. 30° W., 70 lks. dist.
marked T. 4 N., R. 8 W., S 30 B. T.
Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, scattering pine and oak. Undergrowth, chaparral
and manzanita.

From the cor. of secs. 16, 17, 20 and 21.
South on a TRUE line bet. secs. 20 and 21. Asc. 560 ft.
over broken N. slope. Thru scattering timber.
30.46 Ridge, bears E. and W. Desc. 200 ft. over S. slope.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground for ¼ sec. cor., with brass cap marked
1/4

S20: S21

1918

from which

A pine, 4 ins. dia., bears S. 34° W., 62 lks. dist.,
marked 1/4 S. 20 B. T.
A yucca, 6 ins. dia., bears S. 45° E., 92 lks. dist.,
marked X
Raise a mound of stone, 2 ft. base, 1½ ft. high W. of
cor. Desc. 70 ft. over S. slope.
45.22 Canyon, course W. Asc. 60 ft. over N.W. slope. Enter
dense chaparral brush, bears E. and W.
50.37 Spur, slopes W. Desc. 100 ft. over S.W. slope.
65.50 Canyon, course W. Asc. 140 ft. over N.W. slope.
80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in
ground, for cor. of secs. 20, 21, 28 and 29, with
brass cap marked

T 4 N : R 8 W

S 20 : S 21

S 29 : S 28

1918

from which

A pine, 12 ins. dia., bears N. 33° E., 32 lks. dist.,
marked T. 4 N., R. 8 W., S 21 B T
A pine, 8 ins. dia., bears S. 23° E., 39 lks. dist.,
marked T. 4 N., R. 8 W., S 28 B T

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 5 W.

A pine 16 ins. dia., bears S. 15° W., 73 lks. dist.,
marked T. 4 N., R. 5 W., S 29 B T
An oak, 8 ins. dia., bears N. 23° W., 53 lks. dist.,
marked T. 4 N., R. 5 W., S. 20 B T
Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, scattering pines and a few oak.
Undergrowth, chaparral, sage and manzanita.

From the cor. of secs. 19, 20, 29 and 30.
East on a RANDOM line bet. secs. 20 and 29.
40.00 Set temp. 1/4 sec. cor.
80.35 Intersect the cor. of secs. 20, 21, 28 and 29.
Thence West on a TRUE line bet. secs. 20 and 29.
Over mountainous land, thru dense undergrowth of
scrub oak, manzanita and chaparral.
Desc. abruptly over W. slope 140 ft. to
14.50 Guleh, 20 lks. wide, course N.
Asc. abruptly over E. slope 120 ft. to
17.70 Sidhill spur, bears N. Thence along rough N. slope to
40.19 Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the
ground, for 1/4 sec. cor. with brass cap marked

1/4 $\frac{8}{8} \frac{20}{29}$

1919

from which

A pinyon, 10 ins. dia., bears N. 23°30' E., 100 lks.
dist., marked 1/4 S 20 B T
No bearing tree available in sec. 29.
Raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.
51.40 Desc. 200 ft. over N.W. slope to
84.15 South fork of Boulder canyon, 25 lks. wide at bottom,
course N.W. Asc. 120 ft. to
Low divide between Boulder and Grandview canyons, bears
S.E. and N.W. Desc. 120 ft. over S.W. slope to
69.60 Dry ravine, 200 lks. wide, course N.W. Asc. 40 ft.
76.70 Spur, bears N.W. Desc. 130 ft. to
80.35 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous. Soil, sand and rock, 3rd and 4th rate.
Timber, pine, oak and juniper.
Undergrowth, scrub oak, chaparral and manzanita.

From the cor. of secs. 20, 21, 28 and 29
South on a TRUE line bet. secs. 28 and 29.
Asc. 180 ft. over N. slope. Thru dense chaparral and
scattering pine.
12.00 Spur, slopes N.W. Desc. 60 ft. over S.W. slope.
18.74 Ravine, course N.W. Asc. 160 ft. over N. slope.
25.15 Top of round hill. Desc. 104 ft. over broken S.W. slope.
Sawmill, bears S. 35° W.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for 1/4 sec. cor. with brass cap marked

1/4

329 : 328

1918

from which

A live oak, 8 ins. dia., bears S. 50° W., 1.75 chs. dist.
marked 1/4 S 29 B T
There being no tree available for B. T. in sec. 28,

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Thence over broken S. W. slope.
 55.40 Stream, 1 lk. wide, $\frac{1}{2}$ in. deep in ravine, course W.
 Asc. 50 ft. over N. slope. Enter yellow pine, bears E. and W.
 64.21 Spur, slopes N.W. Desc. 40 ft. over S.W. slope.
 68.40 Gulch with very small stream of water, course N.W.
 Asc. 100 ft. over N.E. slope.
 76.16 Peak on ridge bearing N. 20° W. and S. 20° E.
 Desc. 40 ft. over S. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 12 ins. in the ground, to bedrock in mound of stone, for cor. of secs. 28, 29, 32 and 33 with brass cap marked

T4N : R8W
 S29 : S28
 S32 : S33

1918 from which
 A pine, 8 ins. dia., bears N. $51\frac{3}{4}^{\circ}$ E., 77 lks. dist. marked T. 4 N., R. 8 W., S 28 B. T.
 A pine, 10 ins. dia., bears S. $23\frac{1}{2}^{\circ}$ E., 33 lks. dist., marked T. 4 N., R. 8 W., S 33 B. T.
 A pine, 36 ins. dia., bears S. 20° W., 2.33 chs. dist., marked T. 4 N., R. 8 W., S. 32 B. T.
 A pine, 52 ins. in dia., bears N. 80° W., 4.58 chs. dist., marked T. 4 N., R. 8 W., S 29 B. T.
 Land, mountainous. Soil, sand and rock, 3rd rate.
 Timber, scattering pine and oak.
 Undergrowth, dense chaparral with some sage and manzanita.

Thence East on a TRUE line bet. secs. 28 and 33.
 Over gentle S.W. slope, thru pine and oak.
 0.40 Desc. 80 ft. over E. slope.
 6.10 Ravine, course S.E. Thence over broken S. slope.
 30.00 Spur, slopes S.E. Desc. 260 ft. over S.E. slope.
 40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $1\frac{1}{4}$ sec. cor., with brass cap marked

$1\frac{1}{4}$ S 28
 S 33
 1918

from which

A double live oak, 20 ins. dia., bears N. 44° W., 6 lks. dist. marked $1\frac{1}{4}$ S 28 B. T.
 A live oak, 6 ins. dia., bears S. 54° W., 13 lks. dist., marked $1\frac{1}{4}$ S 33 B. T.
 Desc. 150 ft. over E. slope.
 51.18 Mescol Creek, 20 lks. wide, 10 ins. deep, course N.
 Asc. 600 ft. over S.W. slope.
 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap marked

T4N : R8W
 S28 : S27
 S33 : S34
 1918

from which

SURVEY OF THE SUBDIVISIONS OF T. 4 N., R. 8 W.

A live oak, 12 ins. dia., bears N. 37° E. 51 lks. dist.,
marked T. 4 N., R. 8 W., S. 27 B. T.
A live oak, 12 ins. dia., bears S. 36° E., 66 lks. dist.,
marked T. 4 N., R. 8 W., S. 34 B. T.
A live oak, 12 ins. dia., bears S. 61° W., 59 lks. dist.,
marked T. 4 N., R. 8 W., S. 33 B. T.
A nut pine, 15 ins. dia., bears N. 39° W., 8 lks. dist.,
marked T. 4 N., R. 8 W., S. 28 B. T.
Land, mountainous. Soil rocky, 3rd and 4th rate.
Timber, scattering pine and oak. Undergrowth, chaparral,
manzanita and sage.

Thence S. 0°01' W. on a TRUE line bet. secs. 33 and 34.
Desc. 450 ft. over S.W. slope, thru scattering timber.
18.29 Stream, 20 lks. wide, 8 ins. deep, course N. 80° W. Asc. 220
ft. over N. slope. Enter yellow and sugar pine, bears
E. and W.
26.24 Ridge, bears E. and W. Desc. 65 ft. over S. slope.
29.10 Stream, 6 lks. wide, 3 ins. deep, course W. Asc. 100 ft.
Over N.W. slope.
31.74 Spur, slopes W. Desc. 160 ft. over S.W. slope.
40.00 Point for 1/4 sec. cor. falls on steep S. slope, where cor.
cannot be set.
40.50 Stream, 15 lks. wide, 8 ins. deep, course N. 80° W.
Asc. 20 ft. over N. slope.
42.30 Set an iron post, 3 ft. long, 1 in. dia., 10 ins. in the
ground to bedrock, for witness cor. to the 1/4 sec.
cor. with brass cap marked
W 0
1/4
S 33 : S 34
1918 from which
A fir, 8 ins. dia., bears S. 16 1/2° W., 29 lks. dist.
marked W 0 1/4 S 33 B. T.
A pine, 8 ins. dia., bears N. 62° E., 29 lks. dist.,
marked W 0 1/4 S 34 B. T.
Asc. 220 ft. over N. slope.
51.75 Spur, slopes W. Desc. 40 ft. over S.W. slope.
54.75 Stream, 2 lks. wide, 3 ins. deep, course N. 75° W.,
Asc. 700 ft. over N.W. slope.
55.36 Trail, bears E. and W.
80.00 Finding no trace of the cors. on the N. bdy. of T. 3 N.,
R. 8 W., I set a temp. cor. and leave a 2 in. iron
post, marked for the cor. of secs. 32 and 33.
The post is left on line about 4 chs. N. of temp. cor.
Land, mountainous.
Soil, sand, clay and rock, 3rd and 4th rate.
Timber, pine, fir and cedar. Undergrowth, chaparral and
manzanita.

Table of Boundaries, T. 4 N., R. 8 W., S. B. N.
LATITUDES, DEPARTURES, AND CLOSING ERRORS

Line Designated	True Bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
N. bdy. sec. 7	S. 89° 14' E.	40.72		.55	40.72	
	S. 88° 54' E.	40.01		.77	40.00	
N. bdy. sec. 8	N. 89° 13' E.	40.20	.55		40.20	
	N. 89° 45' E.	40.03	.17		40.03	
N. bdy. sec. 9	N. 89° 44' E.	40.02	.19		40.02	
	N. 88° 15' E.	39.27	1.20		39.26	
N. bdy. sec. 10	N. 89° 48' E.	40.86	.14		40.86	
	N. 89° 34' E.	40.44		.31	40.44	
E. bdy. sec. 10	S. 0° 20' E.	80.00		80.00	.47	
N. bdy. sec. 14	East	40.00			40.00	
	N. 89° 37' E.	39.97	.27		39.97	
E. bdy. sec. 14	S. 0° 42' E.	40.01		40.01	.49	
	S. 0° 46' E.	39.90		39.90	.53	
S. bdy. sec. 14	N. 86° 30' W.	3.87	.24			3.86
	West	77.28				77.28
S. bdy. sec. 15	West	80.00				80.00
S. bdy. sec. 16	West	80.00				80.00
E. bdy. sec. 20	South	80.00		80.00		
S. bdy. sec. 20	West	80.38				80.38
S. bdy. sec. 19	S. 89° 51' W.	81.98		.21		81.98
W. bdy. sec. 19	North	80.00	80.00			
W. bdy. sec. 18	North	38.64	38.64			
W. bdy. sec. 18	N. 0° 01' W.	39.95	39.95			.01
W. bdy. sec. 7	N. 0° 13' W.	40.11	40.11			.15
	N. 0° 07' E.	40.17			.08	
Convergency15	
			241.63	241.75	403.22	403.66
				241.63		403.22
Error in latitude12		
Error in departure44

GENERAL DESCRIPTION

This township consists of rough broken mountains in the south, cut by deep canyons draining in a general north direction. The northern part of the township consists of a gentle north slope.

The soil in the mountains is sand, clay and rock, the soil of the northern flatter part is sand and gravel, 2nd and 3rd rate. Earl Hagenbaum has a house and clearing in sec. 17. Wm. Hagenbaum has a house in sec. 16 with a clearing in secs. 7 and 18. He has water piped from Boulder Creek. Crops cannot be grown without irrigation. James Hitchcock has an orchard of apple, peach, pear, cherry and apricot trees in secs. 13 and 24. The socialist colony built a sawmill near the 1/4 sec. cor. bet. secs. 29 and 32. It seems to be abandoned, but there are several fair houses standing and plenty of water. It is the place to camp for the remaining southwestern part of the township. A good road leads from the mill down Deadman Canyon.

The mountainous part of the township is covered with

GENERAL DESCRIPTION

nut pine, yellow pine, sugar pine, oak, fir, and some cedar, with some dense patches of chaparral. The more level parts of the township have a growth of yucca and scrub juniper.

The streams are much smaller during the dry season of the year. The water in Le Mountain, Mescal, Boulder and Dead Man Creeks is piped to the ranches below.

CERTIFICATE OF ASSISTANTS

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of of the Meridian, in the State of which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

<u>NAME</u>	<u>PERIOD OF SERVICE</u> Begun Ended	<u>CAPACITY</u>
Barclay M. Roberts		1st Assistant
Frank Jones Clark		2nd Asst, & Flagman
Arthur J. Millett		2nd Assistant
John Detlefs		Axeman and Cornerman
Wm. S. Boggess		Cornerman
Wm. A. Dobbins		Axeman

Subscribed and sworn to before me on the dates of the final service as shown above.

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR

I, John R. English, U. S. Transitleman, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for California, bearing date of the 17th day of November, 1917, 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, resurveyed and retraced a portion of the subdivisions and resurveyed and retraced a portion of the W. bdy. of T. 4 N., R. 8 W. of the San Bernardino Meridian, in the State of California, which are represented in an index diagram on page 1 and on the dates shown on the said diagram,

FINAL OATH OF UNITED STATES SURVEYOR
(Continued)

solemnly swear that resurvey and retracement 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 California and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey, resurvey and retracement.

JOHN R. ENGLISH
U. S. Transitman

FIELD ASSISTANTS

<u>Names</u>	<u>Capacity</u>
Quinton Campbell	Head Chainman
Everette E. Brooks	Rear Chainman
William Howie	Flagman

CERTIFICATE OF UNITED STATES SURVEYOR

I, W. J. Lightfoot, U. S. Cadastral Engineer, hereby certify upon honor that in pursuance of special instructions received from the U. S. Surveyor General for California, bearing date of the 17th day of November, 1917, 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, resurveyed a portion of the E. bdy. of T 4 N, R 9 W, and surveyed a portion of the subdivisions lines of T 4 N., R 8 W. of the San Bernardino Meridian, in the State of California, which are represented in the foregoing field notes and index diagram on page 1 as having been executed by me, and under my direction and on dates shown on said diagram and that all the corners of said survey and resurvey 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 California, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey, and resurvey.

W. J. LIGHTFOOT

U. S. Cadastral Engineer.

APPROVAL

Office of the United States
Surveyor General.

San Francisco, Cal., Sept. 8, 1919.

The foregoing field notes of the survey, retracement and

APPROVAL (Continued)

resurvey of a portion of the Subdivisions; and the retracement and resurvey of a portion of the West boundary of T. 4 N., R. 8 W., S. B. M., California;
executed by John R. English, U. S. Transitman and W. J. Lightfoot, U. S. Cadastral Engineer, under his special instructions dated November 17th, 1917, having been critically examined and the necessary corrections and explanations made, the said field notes, and the survey, resurvey and retracements they described, and hereby approved.

LOUIS H. MOOSER,
U. S. Survey General
for California

(Received with Surveyor
General's Letter Sept. 9, 1904.)

FIELD NOTES

The SUBDIVISION lines of Township 4 NORTH,
Range 8 WEST, San Bernardino Meridian, California
BY

WILLIAM A. SICKLER,
Deputy Surveyor.

Under his Special Instructions, Mar. 19, 1904.

Survey commenced JUNE 12 1904

Survey completed JUNE 17 1904.

Copied by E. B. G.
Compared with N. W.

NAMES AND DUTIES OF ASSISTANTS.
* * * * *

Alexis Lemonton, Chairman.
* * * * *

Township 4 N., R. 8 W., S. B. M.

(Cut of Township Form)
(in this space)

PRELIMINARY OATHS OF ASSISTANTS

I, Alexis LeMonton do solemnly swear that I will well and faithfully execute the duties of chainman; that I will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that I will report the true distance to all notable objects, and the true length of all lines that I assist in measuring, to the best of my skill and ability, and in accordance with instructions given me, in the survey of the Subdivision of T. 4 N., R. 8 W., San Bernardino Meridian.

Alexis LeMonton, Chainman.

Subscribed and sworn to before me this 13th day of June, 1904.

William A. Sickler,
U. S. Deputy Surveyor.

On account of the isolated location of this work, I was unable to procure enough suitable help. I therefore assisted in chaining. No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay and expense, I administer the required preliminary and final oaths.

William A. Sickler,
U. S. Deputy Surveyor.

SUBDIVISION OF T. 4 N., R. 8 W., S. B. M.

Survey commenced June 12, 1904, and executed with a W. & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc. The instrument was examined, tested on the true meridian at San Francisco, and was approved by the official examiner, May 30, 1901.

I examine the adjustments of the transit and correct the level and collimation errors; thence to test the solar apparatus, by comparing its indications, resulting from solar observations, with a meridian determined by an observation on Polaris, I proceed as follows:

Near the 1/4 sec. cor. bet. secs. 24 and 25, T. 4 N., R. 8 W.; latitude $34^{\circ}25'$ N., longitude $117^{\circ}40'$ W. I set off $34^{\circ}25'$ N. on the lat. arc, $23^{\circ}11'$ N. on the decl. arc and at 4h 0m p.m., l.m.t., determine a meridian with the solar and mark a point on the meridian on a plug driven firmly in the ground 5 chs. N. of my station.

At 8h. 0m. p.m., l.m.t., I observe Polaris at lower culmination and find that the meridian thus determined coincides with the meridian established by solar observation. The magnetic bearing of the true meridian is N. $15^{\circ}08'$ W.; the angle thus determined give the mag. decl. $15^{\circ}08'$ E.

Being unable to find anyone who could show me the location of cor. to secs. 25, 30, 31 and 36, in order to find this cor. and to test my courses and measurements with the old work, I commence at the cor. to secs. 19, 24, 25 and 30,

SUBDIVISION OF T. 4 N., R. 8 W., S. B. M.

which is a post marked and witnessed as described by the Surveyor General. To add to the permanency of this cor. I establish a bearing tree as follows:

A pine 12 inches in diam. bears S. $3\frac{1}{2}^{\circ}$ E. 98 lks. dist. marked T 4 N, R 7 W, S 30 B T
From this cor. I run S. $0^{\circ}5'$ W. on the E. bdy. of sec. 25 and at 40.00 chs. intersect the $\frac{1}{4}$ sec. cor.; Thence I run S. $0^{\circ}4'$ W. and at 39.90 chs. intersect the cor. to secs. 25, 30, 31 and 36, a pine post marked and witnessed as described by the Surveyor General. The post was rotted off at the ground and in its place I set a granite rock $1\frac{1}{2} \times 10 \times 8$ ins., 10 ins. in the ground, marked, S G F R on N.E. face; with 1 notch on S. and 5 notches on N. edges.
This cor. is on N. face of rough mountain, 28 chs. from the foot, and about 1000 ft. above it.

June 13. At 3h 0m p.m., l.m.t., I set off $34^{\circ}24'$ on the lat. arc and $23^{\circ}14'$ E. on the decl. arc, and determine a meridian with the solar at the cor. to secs. 25, 30, 31 and 36.

Thence I run West bet. secs. 25 and 36. Along N. face of steep mountain through brush and timber.

16.00 Spur descending N.W. Descend abruptly into deep canyon.
25.50 E. bank of wash in canyon 600 ft. below sec. cor., course N.
26.50 W. bank. Ascend abruptly.
34.00 Top of spur descending N.W.

End of day, June 13, 1904.

Descend abruptly.

39.00 Canyon 200 ft. below spur, course N.W.
Ascend abruptly.

40.00 An oak 12 ins. in diam. for $\frac{1}{4}$ sec. cor., I mark $\frac{1}{4}$ S. 25 on N. side and 36 on S. side; from which
A pine 14 ins. in diam. bears S. 45° E. 14 lks. dist. marked $\frac{1}{4}$ S. 36 B T
A pine 8 ins. in diam. bears N. 46° E. 35 lks. dist., marked $\frac{1}{4}$ S 25 B T; raise a mound of rocks around tree.

56.50 Top of high ridge, 500 ft. above canyon, bears N. and S.
Descend abruptly.

69.00 Enter Lemonton Canyon 600 ft. below ridge, E. bank of wash
course N.

71.00 W. bank. Ascend abruptly.

80.00 Set a rock $20 \times 14 \times 6$ ins. 14 ins. in the ground for cor. to secs. 25, 26, 35 and 36, marked with 1 notch on the S. and the E. edges; from which
An oak 10 ins. diam. bears N. 45° W. 90 lks. dist., marked T 4 N, R 8 W, S 26 B T.
A double pine 18 ins. in diam. bears N. $42\frac{1}{2}^{\circ}$ E. 33 lks. dist., marked T 4 N, R 8 W, S 25 B T.
An oak 12 ins. in diam., bears S. $20\frac{1}{2}^{\circ}$ E. 49 lks. dist., marked T 4 N., R 8 W., S 36 B T.
A pine 12 ins. in diam. bears S. 62° W. 63 lks. dist., marked T 4 N, R 8 W, S 35 B T. Raise a mound of rocks 4 ft. base, 2 ft. high W. of cor.
This cor. is on top of high spur, facing N. and is about 400 ft. above Lemonton Canyon.

SUBDIVISION OF T. 4 N., R. 8 W., S. B. M.

Land, mountainous. No Soil. Oak and pine timber.
Mountainous land, 80.00 chs.

End of day, June 14, 1904.

June 15: At 8h 0m a.m., l.m.t., I set off $34^{\circ}24'$ on the lat. arc and $23^{\circ}20'$ N. on the decl. arc and determine a meridian with the solar at the cor. to secs. 25, 26, 35 and 36.

North bet. secs. 25 and 26. Descend abruptly through brush and timber.

- 10.00 Enter Lemonton Canyon, 600 ft. below sec. cor., course N.W.
13.25 Left bank of wash.
15.00 Right bank of wash. Ascend along the E. side of steep canyon through heavy brush and scattering timber.
20.00 Top of spur descending W. 100 ft. above canyon. Descend.
24.00 Gully, 20 lks. wide, course W. Ascend.
28.50 Top of spur descending W. Spring in canyon at head of Lemonton's ditch line bears W. about 3 chs. dist. Desc.
37.00 Middle of wash in Lemonton Canyon 200 lks. wide, course N.E.
39.50 Lemonton's ditch, course N.E. Ascend along steep side of mountain on W. side of canyon.
40.00 A double oak 8 ins. in diam. for $1/4$ sec. cor., I mark $1/4$ S. 26 on W. and 25 on E. side, from which
An oak 14 ins. in diam. bears E. 40° E. 26 lks. dist., marked $1/4$ S 25 B T
An oak 8 ins. in diam. bears S. 63° W. $3/4$ lks. dist. marked $1/4$ S 26 B T. Raise mound of rocks around tree.
45.00 Top of precipitous spur descending E.
Thence along the precipitous side of mountain descending E.
48.00 Bottom of rocky gorge, course E. 100 ft. below spur. Ascend.
55.00 Top of precipitous spur 100 ft. above canyon, descending E. Descend.
59.00 Gorge, 50 ft. deep, course E.
65.00 Gorge 40 ft. deep, course E.
67.50 Top of spur, descending E. Leave the precipitous side of mountain and descend, abruptly.

End of day, June 15, 1904.

- 71.00 Gully, course E.
72.75 Gully, course E.
75.00 Canyon, 400 ft. below spur, course E. Ascend bluff.
77.00 Enter small plateau.
79.00 Begin steep descent.
80.00 Set a granite rock $12 \times 10 \times 4$ ins. 9 ins. in ground for cor. to secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges; from which
A pine 8 ins. in diam. bears N. 70° W. 80 lks. dist., marked T 4 N, R 8 W, S 23 B T
A pine 4 ins. in diam. bears S. 38° W. 43 lks. dist., marked T 4 N, R 8 W, S 26 B T
A pine 4 ins. in diam. bears N. 22° E. 44 lks. dist., marked T 4 N, R 8 W, S 24 B T
Raise a mound of rocks 4 ft. base, $2\frac{1}{2}$ ft. high W. of cor.

Land, mountainous. No Soil. Oak and pine timber.
Mountainous land, 80.00 chs.

June 16: At this cor. I set off $23^{\circ}22'$ N. on the decl. arc and at 12h 0m l.m.t., observe the sun on the meridian; the resulting lat. is $34^{\circ}25'$

SUBDIVISION OF T. 4 N., R. 8 W., S. B. M.

East on a RANDOM line bet. secs. 24 and 25.
 40.00 Set temp. 1/4 sec. cor.
 80.09 Intersect E. bdy. of T. 20 lks. S. of cor. to secs. 19,
 24, 25 and 30.
 Thence I run S. 89°51' W. on TRUE line bet. secs. 24 and
 25.
 Ascend gradually.
 8.00 Road, course N.W. and S.E.
 20.00 Begin to descend.
 20.50 Top of bank on E. side of gorge 50 ft. deep, course N.
 22.50 Middle of wash, in bottom of gorge.
 26.50 Top of bank on W. side.
 31.50 Same road, course N.E. and S.W.
 Over nearly level land.
 36.50 Fence bears N.E. and S.W. Enter alfalfa field.
 40.045 Fence bears N. and S. Leave alfalfa field. Set a rock
 14x10x4 ins. 10 ins. in the ground for 1/4 sec. cor.
 marked 1/4 on N. face; dig pits 15x15x12 ins. E.
 and W. of rock, 3 ft. dist., and raise a mound of
 earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor. Lemonton's
 house bears S. 46 1/2° W. 8 chs. dist. Enter orchard.
 47.50 Fence bears N. and S. Leave orchard and descend through
 scattering brush.
 48.50 Gully, course N.
 49.00 Road, bears N. and S. Ascend.
 50.00 Top of spur descending N. Descend.
 55.00 Gully, course N. Ascend gradually.
 60.00 Begin to descend.
 66.00 E. bank of wash, Lemonton Creek, course N.
 68.00 W. bank. Ascend steep bluff.
 70.50 Abandoned ditch, course N.
 72.50 Top of bluff and enter small plateau.
 78.00 Leave plateau and descend.
 80.09 Cor. to secs. 23, 24, 25 and 26.
 Land, first 48 chs., nearly level, remainder mountainous.
 Soil, 3rd rate. No timber. Mountainous land, 32.09 chs.
 End of day, June 16, 1904.

June 17: At 5h 0m A.M., 1.m.t., I set off 34°25' on the
 lat. arc and 23°24' N. on the decl. arc, and deter-
 mine a meridian at the cor. to secs. 23, 24, 25 and
 26.
 Thence I run North on a RANDOM line bet. secs. 23 and 24.
 40.00 Set temp. 1/4 sec. cor.
 80.25 Intersect E. and W. line 435 lks. E. of witness cor. to
 secs. 13, 14, 23 and 24, being 35 lks. E. of TRUE
 location for cor. Thence I run S. 0°15' E. on TRUE
 line bet. secs. 23 and 24. As the place for cor.
 falls on steep slide of loose earth, I shall erect
 witness cor. further S. Descend along W. face of
 slide.
 5.00 Middle of wash, 200 lks. wide, course N.W.
 8.00 Set a rock 14x12x6 ins. 10 ins. in the ground, for witness
 cor. to secs. 13, 14, 23 and 24, marked W C on N.E.
 face, with 1 notch on E. and 3 notches on S. edges,
 from which a pine 10 ins. in diam. bears E. 32 lks.
 dist., T. 4 N., R. 8 W., W. C. B. T.
 Raise a mound of rocks 4 ft. base, 2 ft. high W. of
 cor.
 Pits impracticable. Ascend.

SUBDIVISION OF T. 4 N., R. 8 W., S. 8. N.

13.50 Top of spur descending N.E. Descend.
 20.00 Canyon 50 ft. below spur, course E. Ascend abruptly.
 24.00 Top of bluff 100 ft. above canyon. Descend bluff.
 27.00 Bottom of bluff 75 ft. below top.
 29.75 Cross canyon about 100 lks. W. of its junction with main canyon, course E.
 35.00 Middle of wash of main canyon 150 lks. wide, course N.E. Ascend along E. bank.
 The point for the 1/4 sec. cor. falls in wash, a place unsuitable for cor., therefore at
 39.12 A boulder 4 ft. in diam. 2 ft. above ground for witness cor. to 1/4 sec. cor., I mark W. C. 1/4 on top with a cross at the point for the witness cor. From which
 A pine 14 ins. in diam. bears S. 70 E. 41 lks. dist. marked 1/4 S. 24 W. C. E. T. raise mound of rocks 4 ft. base, 2 ft. high W. of cor.
 This cor. is on E. bank of canyon, N. 0°15' W. 113 lks. from point for TRUE cor.
 40.25 Point for TRUE cor. in middle of canyon, course W. about 100 lks. E. of its junctions with another large canyon coming from the N.W. Ascend.
 47.50 Top of spur descending N.E. Descend.
 50.00 Gully, course E. Ascend.
 51.00 Top of bluff. Descend bluff.
 52.30 Bottom of bluff.
 53.00 Same canyon crossed at 1/4 sec. cor., course N.E. Ascend.
 65.00 Canyon, course N.W. Ascend abruptly.
 72.00 Top of spur descending N.E. Descend.
 74.50 Canyon, course N.E. Ascend abruptly.
 80.25 Cor. to secs. 23, 24, 25 and 26.
 Land, mountainous. No soil.
 No timber. Mountainous land, 80.25 chs.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Bearing	Dist.	Latitudes		Departures	
		N.	S.	E.	W.
East	80.00			80.00	
South	40.02		40.02		
S. 0°3' W.	40.01		40.01		00.03
S. 0°5' W.	40.00		40.00		00.06
S. 0°4' W.	39.90		39.90		00.05
West	80.00				80.00
North	80.00	80.00			
N. 0°15' W.	80.25	80.25			00.35
		160.25	159.93	80.00	80.49
		<u>159.93</u>			<u>80.00</u>
Error in Latitude		0.32	Error in Departure		0.49

GENERAL DESCRIPTION

The East part of section 24 and the N.E. part of section 25 is comparatively level. The remainder of the two sections is very mountainous, cut with deep canyons, whose sides are nearly precipitous. There is a small stream of water in Lemouton Canyon; and the southern portion of section 25 is covered with pine and oak timber.

June 17, 1904

William A. Sickler,

U. S. Deputy Surveyor.

FINAL OATHS FOR SURVEYOR

List of Names

A list of the names of the individuals employed by William A. Sickler, United States Deputy Surveyor, to assist in running measuring and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of T. 4 N., R. 8 W., San Bernardino Meridian, showing the respective capacities in which they acted.

Alexis Lemouton, Chairman

FINAL OATHS OF ASSISTANTS

I hereby certify that I assisted William A. Sickler, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T. 4 N., R. 8 W., of the San Bernardino base and Meridian, State of California, which are ~~expressly~~ represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions, furnished by United States Surveyor General for California.

Alexis Lemouton, Chairman.

Subscribed and sworn to before me this 18th day of June, 1904.

William A. Sickler,
U. S. Deputy Surveyor.

FINAL OATH OF U. S. DEPUTY SURVEYOR

I, William A. Sickler, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from William S. Graham, United States Surveyor General for California, bearing date of the 19th day of March, 1904, I have well, faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for California, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of T. 4 N., R. 8 W., of the San Bernardino base and Meridian, in the State of California, which are represented in the foregoing field notes, as having been surveyed by me and under my direction; and I do further solemnly swear 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 California, and in the specific manner described in the field notes, and that the foregoing are the original field notes, of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an act of Congress, approved August 8, 1846.

William A. Sickler,
United States Deputy Surveyor.

Subscribed by said William A. Sickler and sworn to before me this 24 day of June, 1904.

Will H. Holcomb, County Clerk,
By Edgar B. Snell, deputy

U. S. SURVEYOR-GENERAL'S OFFICE

San Francisco, Cal., Sept. 3rd, 1904.

The foregoing Field Notes of the surveys of the Subdivision Lines of Township 4 North; Range 8 West, San Bernardino Meridian in the State of California, executed by William A. Sickler, U.S. Deputy Surveyor, under his special instructions, dated March 19th, 1904, having been critically examined and the necessary corrections and explanations made, the said Field Notes and the Surveys they described are hereby approved.

(SEAL) W. S. GRAHAM
U. S. Surveyor-General for
California

U. S. SURVEYOR-GENERAL'S OFFICE

San Francisco, Cal., Sept. 3rd, 1904.

I, U. S. Surveyor General for California, do hereby certify that the foregoing Transcript has been correctly copied from the original Field Notes, as the same remain of record and on file in this office.

Attest my hand and Official Seal, the day
and date herein above written.

W. S. GRAHAM,
U. S. Surveyor-General for California.

OATHS OF ASSISTANTS.

We, William Mulock and Jacob Bell, do solemnly swear, that we will faithfully execute the duties of Chain Carriers, that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects and the true length of all lines.

Township No. 4 North, Range No. 8 West, Mer.

(Sketch of Township)

Subscribed and sworn to before me at Camp in Fractional Township 4 N., R. 8 W., of the San Bernardino Meridian, on this 27th day of October, 1855.

HENRY HANCOCK,
Deputy Surveyor

- - - - -

We, William Mulock and Jacob Bell, do solemnly swear that we will faithfully execute the duties of Chain Carriers, that we will level the chain upon uneven ground, and plumb the tally pins, whether by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines; that we may assist in measuring to the best of our skill and ability.

WILLIAM MULOOCK
JACOB BELL

- - - - -

Sworn and subscribed before me at Camp, in Township 4 N., R. 8 W., of the San Bernardino Meridian, on this 27th day of Oct. 1855.

HENRY HANCOCK
Deputy Surveyor

- - - - -

We, John Warren and Charles Greener, do solemnly swear that we will well and truly perform the duties of Axeman and Moundman, according to instructions given us, and to the best of our ability and skill.

JOHN WARREN
C. A. GREENER

- - - - -

OATHS OF ASSISTANTS (Continued)

Sworn and subscribed before me at Camp in Fractional Township 4 N., R. 5 W., of the San Bernardino Meridian, on this 27th day of October, 1855.

HENRY HANCOCK
Deputy Surveyor.

I, Frank Lecouvreur, do solemnly swear that I will perform the duties of Flagman, according to instructions given me, and to the best of my skill and ability.

FRANK LECOUVREUR.

Subscribed and sworn to before me, at Camp, in Fractional Township 4 N., R. 5 W., of the San Bernardino Meridian, on this 27th day of October, 1855.

HENRY HANCOCK,
Deputy Surveyor.

SUBDIVISIONAL LINES OF FRACTIONAL TOWNSHIP 4 N., R. 5 W., SAN BERNARDINO MERIDIAN

Showing the proper adjustment of my compass for subdividing this township by means of having recently with the same chainmen ran and measured the exterior lines thereof. Subdivision commenced Oct. 27, 1855.

From the corner to secs. 18, 19, 13 and 24 on the East boundary of the Township, I run West between secs. 13 and 24.

Var. 14° 05' E.

1.50	Across gully, 50 links wide, course N.E.
6.00	Across gully, 100 links wide, course N. banks 5 ft. high
32.70	To cedar 11 ins. diam. on line
40.00	Drove quarter section post and charred stake and raised mound with trench and pits as per instructions.
54.00	To base of a high foot hill of the mountains on the south.
73.00	To top of North slope of same ascent some 300 feet.
73.71	Drove a witness section post and charred stake on the East edge of an impassable abyss and raised an irregular mound as a Witness Corner of Secs. 13, 14, 23 and 24. Six chains and 29 links East of the TRUE corner from which a pinon pine 18 ins. diam. bears S. 6° West dist. 33 links. Another pinon pine 10 ins. diam. bears N. 19° East dist. 65 links. Northern base of the mountain. Soil second rate but rocky.

From the witness corner of Sections 13, 14, 23 and 24.

I run an offset line of the West boundary of Sec. 13, North

Var. 14° 05' E.

18.00	To offset Station No. 2, descent 150 ft. Thence an offset
West	6.29 chains to the TRUE west boundary of sec. 13 and end on the east, face of a deep ravine and set a cylindrical granite rock 22 in. long, and some 11 in. diam. 3 lks. West of a large slab of granite. Thence North on a TRUE line between sections 13 and 14.
12.00	Leave the East face of ravine.

SUBDIVISIONS OF FRACTIONAL TOWNSHIP 4 N., R. 8 W.
SAN BERNARDINO MERIDIAN

22.00	Drove quarter section post and charred stake from which a cedar 5 ins. diam. bears S. 67 E. dist. 21 links. A cedar 4 ins. diam. bears S. 63 W. dist. 15 links.
54.50	To the E. bluff of Ravine again.
55.00	Into ravine on Canada.
62.00	Drove section post and charred stake cor. of Secs. 11, 12, 13 and 14, and dug trench as per instructions from which bears a Palmetto 12 ins. diam. N. 22' E. dist. 123 links & Palmetto 8 in. diam. S. 47 W. dist. 65 links. Hilly, soil second rate.
East	On a RANDOM line between Sections 12 and 13. Var. 14° 08' E.
5.00	Across a gully 25 links wide, course N.
40.00	Set temporary quarter section post.
	Across a dry arroyo 50 links wide to N.
76.50	Across another dry arroyo 30 links wide, course N.E.
79.68	Intersect to E. boundary of the township 37 links N. of corner of Secs. 7, 12, 13 & 18 from which corner I run
West	On a TRUE line between Sections 12 and 13. Var. 13° 52' E.
39.84	Drive quarter section post and charred stake one foot and raised a mound of rock 30 ins. high with a base of 4 ft.
79.68	To corner of Sections 12, 11, 13, 14. Land sloping, base of the Sierra Madre Mountains situated on the South. Soil second rate. First half mile too rocky for anything but culture of the vine. Last half mile arable.

North	Between Sections 11 and 12. Var. 14° 08' E.
6.00	Across a dry arroyo, 25 links wide, course N.E.
15.00	Across a dry arroyo, 20 links wide, course N.W.
40.00	Drove quarter section post and charred stake, from which a Palmetto, 5 ins. diam. bears N. 31½ W. dist. 87 links & 8 in. diam. bears S. 65 E. dist. 95 links.
80.00	Set section post and charred stake in mound, with trench and pits as per instructions, Cor. of Secs. 1, 2, 11 and 12 on North side of dry arroyo, 30 links wide, course N.E. Land sloping to the North. Timber mostly cedar. Soil second rate.

East	On RANDOM between Sections 1 and 12. Var. 14° 08' E.
.80	Across dry arroyo, course N.E.
15.50	Across dry arroyo, 20 lks. wide, course N.
40.00	Set temporary quarter section post.
41.50	Across a dry arroyo, 12 lks. wide, course N.
42.00	Cross a wagon road, course N.W.
76.50	Across a dry arroyo, 50 lks. wide to N.
79.50	Across a dry arroyo, 50 lks. wide to N.
79.80	Intersect the East boundary of the township 40 lks. N. of the corner of Secs. 1, 6, 7 and 12, from which I run
West	On a TRUE line between Secs. 1 and 12. Var. 13° 48' E.
39.90	Drive quarter section post and charred stake from which a cedar 10 in. diam. bears N. 65 W. dist. 48 lks. A cedar 8 ins. diam. bears S. 43 E. dist. 71 lks.
79.80	To corner of Secs. 1, 2, 11 and 12. Land sloping to N. Timber, cedar. Soil second rate.
	October 27th.

FRACTIONAL TWP. 4 N., RANGE 8 W.

North	On RANDOM between Sections 1 and 2. Var. 14° E.
13.50	Across wagon road, course West.
40.00	Set temporary quarter section post.
79.39	Intersect the North boundary 36 lks. E. of cor. of secs. 1 & 2 from which corner 1 run
South	On TRUE line between Sections 1 and 2. Var. 14°15' E.
39.39	Drove quarter section post and charred stake from which bears a cedar 11 ins. diam. N. 10 E. dist. 13 lks. Another cedar 10 ins. diam. N. 85 W. dist. 113 lks.
79.39	To corner Secs. 1, 2, 11 and 12. Land sloping to North. Timber, cedar. Soil, second rate.

West	From corner of Secs. 11, 12, 13 and 14. I run On TRUE Line between Secs. 11 and 14. Var. 14° E.
4.00	Across dry arroyo, 1 chain wide, course North
11.00	To top of West bank of Canada. Course North, ascent 40 feet.
40.00	Drove quarter section post and charred stake from which bears a cedar 4 in. diam. S. 5 W. dist. 14 links, and a cedar 7 in. diam. N. 55 E. dist. 41 lks. A pine on top of mountain S. 5½ W.
46.00	Across ravine 2 chs. wide, course North.
72.50	To east bluff of deep Canada.
77.50	Into Canada, descent 80 feet, course North.
80.00	Set section post and charred staked in mound with trench and pits, as per instructions, within some 12 chains of the base of the mountain and W. side of the Canada. Cor. of Secs. 10, 11, 14 and 15. The base of the mountain is some ¼ of a mile S. for the first half mile. The last half mile is broken and on the base of the moun- tain sloping North. Soil, second rate and rocky. Timber, cedar.

	North on a TRUE line between Secs. 11 and 10. Var. 14° E.
18.00	Across dry arroyo, 30 lks. wide, course N.E.
26.50	Across dry arroyo, 30 lks. wide, course N.W.
35.86	A Spanish bayonet 8 ins. diam. on line.
37.50	Across dry arroyo, 30 lks. wide, course N.E.
40.00	Drove quarter section post and charred stake and dig trench as per instructions, from which bears a Palmetto 7 ins. diam. S. 33½ E. dist. 42 links, and pine tree in the mountain before taken, bears S. 4° E.
44.00	Across dry bed of arroyo, 30 links wide, course N.W.
56.00	Across dry bed of arroyo, 30 links wide, course N.E.
76.00	Across dry bed of arroyo, 30 links wide, course N.W.
79.50	Across dry bed of arroyo, 50 links wide, course N.E.
80.00	Drove section post and charred stake from which bears A Spanish bayonet 8 ins. diam. S. 74½ E. dist. 99 links Another Spanish bayonet 6 ins. diam. N. 56 E. dist. 146 lks. Another Spanish bayonet 7 ins. diam. N. 35½ W. dist. ___ links A cedar 6 ins. diam. S. 82½ W. dist. 194 links, first half mile falls in the Canada. Soil second rate. Cor. of secs. 2, 3, 10 and 11. -----
East	On a RANDOM between Secs. 2 and 11. Var. 14° East.
.80	Across dry arroyo, 50 lks. wide, course N.
40.00	Set temporary quarter section post.
79.15	Intersect N. and S. line, 17 lks. N. of Cor. of Secs. 1, 2, 11 & 12

FRACTIONAL TWP. 4 NORTH, RANGE 5 WEST

from which I run West on a TRUE line between Secs. 2 and 11
Var. 13°53' East

39.57½ Drove quarter section post and charred stake from which bears
a Spanish bayonet 8 ins. diam. S. 70 W. dist. 12 links
a cedar 5 ins. diam. N. 18 E. dist. 76 links.

79.15 To corner of Secs. 2, 3, 10 and 11. Soil second rate. Land
covered with cedar, muskete, chimise and bunch grass,
and apparently excellent soil for wheat.

North 5 On RANDOM between Secs. 2 and 3. Var. 14°08' E.

5.00 Across dry arroyo 30 lks. wide, course N.E.

30.50 Across dry arroyo 25 lks. wide, course N.W.

37.00 Across wagon road, course West.

40.00 Set temporary quarter section post.

45.00 Across dry arroyo, course N.E. 20 lks. wide.

79.24 Intersect North boundary 129 lks. E. of cor. of Secs. 2 and 3
from which I run South on a TRUE line between Secs. 2 & 3.
Var. 15°03' E.

39.24 Draw quarter section post and charred stake from which bears
a Spanish bayonet 6 in. diam. N. 26½ W. dist. 116 lks.
a Cedar 5 ins. diam. S. 40 E. dist. 45 lks.

79.24 To cor. of Secs. 2, 3, 10 and 11. Soil second rate. Land
rocky in places, but not so as to render it unfit for
plowing.
Timber, Cedar and Spanish Bayonet with Chemise and
bunch grass.

West From cor. of Sections 2, 3, 10 and 11, I run
On TRUE line between Secs. 3 and 10 Var. 14°08' E.

20.00 Across dry arroyo, 50 lks. wide, course N.

40.00 Set quarter section post and charred stake in a rock mound
of 5 feet base and 30 in. high on the West side of a
rocky dry arroyo, some 10 chains wide.

80.00 Set Sec. post and charred stake in mound with trench and pits
as per instructions. Cor. of Secs. 3, 4, 9 and 10. Soil
second rate, but mostly rocky. Land high, base of moun-
tain sloping to North and some 50 chains E. of the Set
hills, covered with scattering cedar, chimise, muskete
and bunch grass.

North On RANDOM between Sections 3 and 4. Var. 14°08' E.

14.00 Across dry arroyo, 30 lks. wide, course N.W.

17.50 Across same again, course N.E.

38.00 Across same again, course N.W.

40.00 Set temporary quarter section post.

43.50 Across same, dry arroyo again, course N.E.

46.50 Across same again, course N.W.

49.00 Across same again, course N.E.

53.50 Across same again, course N.W.

69.50 Cross wagon road, course W.

80.19 Intersect the North boundary 117 links East of corner of Secs.
3 and 4, from which corner I run South on a TRUE line
between Secs. 3 and 4. Var. 14°58' E.

40.19 Drove quarter section post and charred stake on W. banks of
dry arroyo, from which a Spanish Bayonet 7 in. diam.
bears S. 58 W. dist. 125 links, a cedar 5 in. diam.
bears S. 21 W. dist. 103 links. At 18 chains local attraction

FRACTIONAL TWP. 4 NORTH, RANGE 8 WEST

drew the north end of the needle to the west 20° at 38 chains, it was reduced to 5° and at 49 chains it disappeared altogether. Soil second rate. Land sloping to the North and covered with scattering cedar, chimise and bunch grass. October 29th.

From corner of Secs. 3, 4, 9 and 10, I run South on a TRUE line between Sections 9 and 10. Var. 14°08' E.

8.00 Across dry arroyo, 30 lks. wide, course N.E.
40.00 Drove quarter section post and charred stake some 150 links East of the West bank or bluff of the Canada, 100 feet high from which a Cedar 5 in. diam. bears N. 80 E. dist. 99 lks. a Cedar 6 ins. diam. bears N. 52 W. dist. 106 lks. This Canada extends South about a mile retaining its width and uniformly inclined plain, then resolves itself into a canyon, extending far into the mountain amongst the pine timber, through which canyon courses a fine stream of water which at this season of the year sinks in the rocks ere it reaches the Canada. Soil second rate. Thence I return to cor. of secs. 3, 4, 9 and 10 and run

West On a TRUE line between Secs. 4 and 9. Var. 14°08' E.

3.50 Across dry arroyo, 30 lks. wide, course North.
5.50 Across Canada.
8.00 To top of West bluff of same ascent 60 feet.
13.50 Across ravine, 1 chain wide, course N.
40.00 Set quarter section post and charred stake in mound with trench and pits as per instructions.
62.50 To East bluff of ravine.
66.50 To centre of same and across a dry arroyo 12 lks. wide, course N.
67.50 To west bluff of ravine.
77.50 To east bluff of another ravine.
80.00 Set a granite rock 24 in. long, 14 ins. wide, and 6 in. thick on an average 8 in. in ground, cor. of secs. 4, 5, 8 and 9 from which a cedar 6 in. diam. bears S. 30 W. dist. 30 lks. a cedar 10 in. diam. bears N. 88 W. dist. 33 links. Land rough. Mountain base sloping to the North. Timber, cedar. Soil second rate.

North On RANDOM between Sections 4 and 5. Var. 14°08' E.

6.00 To top of E. bluff of Ravine.
40.00 Set temporary quarter section post. Descent 100 feet.
80.64 Intersect North boundary 171 lks. East of corner of Secs. 4 & 5 from which corner I run South on a TRUE line between Secs. 4 & 5. Var. 15°21' E.
40.64 Set quarter section post and charred stake in mound with trench and pits as per instructions.
80.64 To corner of Secs. 4, 5, 8 & 9. Land sloping to the North. Soil mostly second rate. Timber Cedar, Underbrush, Chimise and Canatja.

West On TRUE line between Sections 5 and 8. Var. 14°08' E.
5.00 Into a Canada extending South above 40 chains to the mountain.
10.00 Across dry arroyo, 2 chains wide, course North.

FRACTIONAL TWP. 4 NORTH, RANGE 8 WEST

12.00 Across the Canada, course North
15.00 To top of West bluff of the Canada and North slope of ridge
26.50 To top of North slope of Second ridge.
31.50 To top of North slope of Third ridge.
35.50 To top of North slope of Fourth ridge or East bluff of flat ravine.
37.00 Into flat ravine, descent 80 feet.
40.00 Drove quarter section post and charred stake from which bears a Spanish Bayonet 6 in. diam. N. 25 W. dist. 75 links
A Cedar 6 in. diam. S. 68 $\frac{1}{2}$ E. dist. 143 lks.
43.50 To top of West bluff of a flat ravine 3 chains wide, course North. Ascent 60 feet.
53.50 To top of North slope of Ridge. Ascent 80 feet.
60.50 To East bluff of Canada.
70.00 Into Canada extending South about 40 chains to base of mountain
80.00 Drove section post and charred stake on West side of Canada. Cor. of Secs. 5, 6, 7 & 8 from which a cedar 12 in. diam. bears S. 85 $\frac{1}{2}$ W. dist. 76 links. A Spanish Bayonet 10 ins. diam. S. 67 E. dist. 217 lks. Land hilly. Timber Cedar. Soil second rate.

North On RANDOM line between Sections 5 and 6.
Var. 14 $\frac{1}{2}$ 08' E.
40.00 Set temporary quarter section post.
45.00 To East bank of Canada.
55.00 To top of same.
65.00 To valley. Descent 80 feet.
81.08 Intersect North boundary 200 lks. East of cor. of Secs. 5 and 6 from which corner I run

South On TRUE line between Sections 5 and 6.
Var. 15 $\frac{1}{2}$ 35' E.
41.08 Drive quarter section post and charred stake from which a Spanish Bayonet 8 ins. diam. bears North 72 $\frac{1}{2}$ West dist. 156 links, another Spanish Bayonet 8 ins. diam. N. 59 E. dist. 130 lks.
81.08 To corner of Secs. 5, 6, 7 & 8. Last half mile falls in the Canada, passing North through the foot hills of the Mountains. Soil generally second rate. Timber Cedar, underbrush, chimise and moskito.

West On RANDOM between Sections 6 and 7.
Var. 14 $\frac{1}{2}$ 05' E.
40.00 Set temporary quarter section post, on high hill.
64.00 To west point of high hill and east bluff of ravine.
68.50 Into ravine and across a dry arroyo, 12 lks. wide, course North
Descent 80 feet.
76.00 To west bluff of ravine and East bluff of Canada.
77.50 Into Canada.
79.50 Across dry arroyo, 20 lks. wide, course North.
80.50 Intersect West boundary, 150 lks. South of cor. of Secs. 6 & 7 from which I run East on TRUE line between Secs. 6 and 7
Var. 13 $\frac{1}{2}$ 04' E.
40.50 Set quarter section post and charred stake in mound with trenches and pits as per instructions.
80.50 To corner of Secs. 5, 6, 7 and 8. Hilly last half mile mostly on the broken south face of a high hill. Soil third rate. Timber, dwarfish cedar. October 30th.

FRACTIONAL TWP. 4 NORTH, RANGE 8 WEST

GENERAL DESCRIPTION

The unsurveyed portions of this Township consists of a high mountain covered on the Northern face to its crest with large California or Norway Pine.

The subdivided part lies in the foothills and on the Northern slope of the same and appears well adapted to the growth of wheat and the vine. Corn, also, by taking the water from the mountains for irrigation.

A list of the names of the individuals employed to assist in running, measuring or marking the lines and corners described in the foregoing field notes of Fractional Township No. Four, North, of the base line of Range No. Eight, West, of San Bernardino Meridian, showing the respective capacities in which they acted.

WILLIAM MULLOCK,	Chairman
JACOB BELL,	Chairman
JOHN WARREN,	Axeman & Moundman
CHARLES CREAMER,	Axeman and Moundman
FRANK LECOUVREUR,	Flagman

We hereby certify that we assisted Henry Hancock, Deputy Surveyor, in surveying and subdividing Fractional Township No. 4, North of the base line of Range No. 8, West of the San Bernardino Meridian, and that the said Fractional Township has been in all respects to the best of our knowledge and belief well and faithfully surveyed and the boundary monuments planted according to the instructions furnished by the Surveyor General.

WM. MULLOCK,	Chairman
JACOB BELL,	Chairman
JOHN WARREN,	Axeman and Moundman
C. A. CREAMER,	Axeman and Moundman
FRANK LECOUVREUR,	Flagman

Subscribed and sworn to by the above named persons, before me, a Justice of the Peace, for Los Angeles County, this 19th day of January, A. D. 1856.

ALEX GIBSON
Justice of the Peace

STATE OF CALIFORNIA.

I, Henry Hancock, Deputy Surveyor, do solemnly swear that in pursuance of a contract with John C. Hays, Surveyor of the public lands of the United States in the State of California, bearing date of the 15th day of February 1855, and in strict conformity to the laws of the United States and instructions furnished by the said Surveyor General. I have faithfully surveyed and subdivided Fractional Township No. Four, North of the base line of Range No. Eight, West of San Bernardino Meridian in the State aforesaid and do further solemnly swear that the foregoing are the true and original field notes of such survey.

HENRY HANCOCK, Deputy Surveyor.

FRACTIONAL TWP. 4 NORTH, RANGE 8 WEST

Subscribed by said Henry Hancock, Deputy Surveyor, and sworn to before me, Alex Gibson, a Justice of the Peace, in and for the County of Los Angeles, State of California, on this 19th day of January, A. D., 1856.

ALEX GIBSON,
Justice of the Peace

OATHS OF ASSISTANTS

We, William Mulock and Jacob Bell, do solemnly swear, that we will faithfully execute the duties of Chain Carriers; that we will level the chain upon uneven ground, and plumb the tally pins; whether sticking or dropping the same; that we will report the true distance to all notable objects and the true length of all lines that we may assist in measuring to the best of our skill and ability.

WILLIAM MULOOCK
JACOB BELL

Sworn and subscribed to before me at Camp, Township 5 North, Range 9 West, of the San Bernardino Meridian, on this 5th day of November, 1855.

HENRY HANCOCK
Deputy Surveyor.

We, John Warren and Charles Creamer, do solemnly swear that we will well and truly perform the duties of Axeman and Moundman, according to instructions given us and to the best of our skill and ability.

JOHN WARREN
C. A. CREAMER

Sworn and subscribed to before me at Camp, Township 5 North, Range 9 West, of the San Bernardino Meridian, on this 5th day of November, 1855.

HENRY HANCOCK,
Deputy Surveyor.

I, Frank Lecouvreur, do solemnly swear that I will well and truly perform the duties of Flagman, according to instructions given me, and to the best of my skill and ability.

FRANK LECOUVREUR

Sworn and subscribed to before me at Camp, Township 5 N., R. 9 W., of the San Bernardino Meridian, on this 5th day of November, 1855.

HENRY HANCOCK,
Deputy Surveyor.