

SURVEY OF
ANGELUS NATIONAL FOREST BOUNDARY
IN T4N R12W, T4N R13W,
T4N R14W, AND T3N R14W,
COPIED FROM CERTIFIED NOTES
FURNISHED BY THE PUBLIC SURVEY OFFICE,
SAN FRANCISCO, CALIF.

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

— Indicates Field Notes by Lewis H. Cutting 1896
 - - - - - Boundary Angelus National Forest

DEPARTMENT OF THE INTERIOR
GENERAL LAND OFFICE

Public Survey Office
San Francisco, California

I, FRANK E. BARKER, Office Cadastral Engineer, do hereby certify that the annexed transcript of field notes of survey by Lewis H. Cutting, 1896, of the San Gabriel Forest Reservation, along the easterly and the southerly boundaries of Township 5 North, Range 12 West. Along the east line of north half of Township 4 North, Range 13 West, westerly through the middle of Township 4 North, Ranges 13 and 14 West, including several section lines run northerly from the Forest Boundary in Township 4 North, Ranges 13 and 14 West, and southerly along the west boundaries of Township 4 North, Range 14 West and Township 3 North, Range 14 West, of the San Bernardino Meridian, is a true and literal exemplification of said field notes as they remain on file and of record in this office.

August 8, 1928.

(8) Frank E. Barker

Office Cadastral Engineer
for California.

Boundary Line of San Gabriel Forest Reservation.

Along N. Bdy. T. 2 N. R. 14 W. S. B. M.

From the true point for $\frac{1}{4}$ section corner, 1.35 chains east of witness corner, I run

West on a random line between Sections 6 and 31.

46.77 To a point 3 links north of old witness corner to Townships 2 and 3 North, Ranges 14 and 15 West, where I found a stone mound but no other trace of corner.

To reestablish same and to mark corner No. 34 on Reservation boundary, I set a square, hollow, iron post, 3 feet long, with sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground marked

S. G. F. R. 34, T. 3 N. S. 31 on northeast,

R. 14 W. S. 6 on southeast,

T. 2 N., S. 1 on southwest and

T. 15 W. S. 36 on northwest faces; and

rebuilt stone mound, 1 foot high, 5 feet base around post.

Pits impracticable.

Alongside which I set a post, 3 feet long, 3 inches square, 24 inches in the ground, marked W. O. on east face; and raised a stone mound, 2 feet base, $1\frac{1}{2}$ feet high around post.

Pits impracticable.

Along W. B. T. 3 N., R. 14 W., S. B. M.

September 23: at 7h. 00m. A.M., l.m.t. I set off $34^{\circ} 18'$ north on the lat arc; $0^{\circ} 22'$ south on the decl. arc; and determine a true meridian with the solar at the true point for corner to townships 2 and 3 north, ranges 14 and 15 west.

From the true point for corner to Tps. 2 and 3 north, Rs. 14 and 15 west, which is 2.40 chains east of witness corner as previously described, I run north on a random line, on west boundary of township.

Boundary Line of San Gabriel Forest Reservation

Along W. Bdy. T. 3 N., R. 14 W. S. B. M.

After diligent search, being unable to find any trace of old corners along line, I return to above township corner, run north, and set temporary corners at every 40 and 80 chains, and at 5 miles, 9.25 chains arrive at a point 120 links east of old corner to Sections 1, 6, 7 and 12, which is a granite stone, 6x6x10 inches, above the ground, marked as described by the Surveyor General, the stumps only of the bearing trees remaining.

Thence I run

South 0°10' east on a true line between Sections 7 and 12.

Ascend.

4.50 Top of spur, 100 feet above section corner, bears east and west.

Descend.

9.00 Gulch, 6 links wide, 200 feet below top of spur, course west.

Ascend.

15.00 Top of spur, 275 feet above gulch, bears east and west.

Descend.

21.50 Gulch, 10 links wide, 300 feet below top of spur, course northwest.

Ascend.

40.96½ Set a granite stone, 18x10x6 inches, 12 inches in the ground, for quarter section corner, marked $\frac{1}{4}$ on west face, S.G.F.R. on east face, and raised a mound of stone, 1½ feet high, 2 feet base west of corner.

Pits impracticable.

41.50 Top of divide between Soledad and San Fernando valleys, 1000 feet above last gulch, bears east and west.

Descend.

51.25 Gulch, 15 links wide, 100 feet below top of divide, course east, continue descent.

70.00 Enter pine timber, bears east and west.

Boundary line of the San Gabriel Forest Reservation.

Along W. Bdy. T. 3 N., R. 14 W., S. E. M.

70.50 Ravine, 20 links wide, 100 feet deep, course east.

Ascend.

76.00 Leave pine timber, bears east and west.

81.93 Set a granite stone, 20x12x9 inches, 15 inches in the ground for corner to Sections 7, 12, 13 and 18, marked with 4 notches on south and 2 notches on north edges, and S.G.F.R. on east face; from which bears

A live oak 5 inches dia. south $97\frac{1}{2}^{\circ}$ east, 33 links distant, marked S.G.F.R. T. 3 N., R. 14 W., S. 18 B.T.

A live oak 6 inches dia. south 50° west, 14 links distant, marked S.G.F.R. T. 3 N., R. 15 W., S. 13 B.T.

No other tree within limits; raised a stone mound, $1\frac{1}{2}$ feet high $3\frac{1}{2}$ feet base, west of corner.

Pits impracticable.

Land, mountainous.

Soil, third rate.

Timber of pine and oak.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

South $0^{\circ}10'$ east on a true line between Sections 13 and 18.

Ascend.

4.50 Summit of mountain, 900 feet above last ravine, bears east and west and over same.

40.96 $\frac{1}{2}$ True point for quarter section corner, falling in steep wash, on mountain side, not a suitable place to mark,

I continue south $0^{\circ}10'$ east and at

69.00 Set a granite stone 20x17x12 inches, 15 inches in the ground for witness corner to quarter section corner, marked W.C. $\frac{1}{4}$ on west face; and raised a stone mound, $1\frac{1}{2}$ feet high, $3\frac{1}{2}$ feet base, west of corner. Pits impracticable. Stone also marked S.G.F.R. on east face. Descend.

W. Bdy. T.3 N., R.14 W., S.E.M.

81.93 Set a granite stone, 22x14x6 inches, 12 inches in the ground, for corner to Sections 13,18,19 and 24, marked S.G.F.R. on east face, with 3 notches on north and south edges; and raised a mound of stone 2 feet high, $4\frac{1}{2}$ feet base, west of corner.

Pits impracticable.

It being impossible to set iron post, No.35 at this point I set it further south.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

September 23, 1896.

September 24th; at 7h. 00m. A.M., 1 m.t. I set off $34^{\circ} 20'$ north on the lat. arc; $0^{\circ} 46'$ south on the decl. arc, and determine a true meridian with the solar at the corner to Sections 13,18,19 and 24, just set by me. South $0^{\circ} 10'$ east on a true line between Sections 19 and 24.

Descend.

13.00 Center of Pogonma Canon, stream in same, 10 links wide, 900 feet below summit of mountain, course west. Ascend.

14.00 Set a square, hollow iron post, filled with cement, etc. 3 feet long, the sides 4 inches wide, at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground, for witness corner to corner 35, on boundary of San Gabriel Forest Reservation, marked

T.3 N., S 18 on northeast,

S.G.F.R.35, R.14 W.S.19 on southeast;

R.15 W., S.24 on southwest and

S 13 on northwest faces;

W. Bdy. T. 3 N., R. 14 W., S.B.M.

and raised a mound of stone $1\frac{1}{2}$ feet high, 5 feet base around post.

Pits impracticable.

Alongside post, set a granite stone $21 \times 17 \times 11$ inches in the ground, marked W.C. 14.00 chains on north face.

37.30 The true point for quarter section corner, falling on precipitous slide, not a suitable place to mark, at this point, which is 2.70 chains, north $0^{\circ}10'$ west, from true point, I set a granite stone $32 \times 24 \times 4$ inches, 24 inches in the ground, for witness corner to quarter section corner, marked W.C. $\frac{1}{4}$ on west face, S.G.F.R. on east face; and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base west of corner. Pits impracticable. Stone also marked S.G.F.R. on east face.

40.96 $\frac{1}{2}$ True point for quarter section corner.

56.95 Top of spur bears east and west. Descend.

62.20 Wagon road bears east and west.

63.00 Gulch, 30 lks. wide, 300 feet below top of spur, course west. Ascend.

72.50 Top of spur, 500 feet above gulch, bears east and west. Descend.

81.93 Set a granite stone $24 \times 18 \times 18$ inches, 18 inches in the ground for corner to Sections 19, 24, 25 and 30, marked S.G.F.R. on east face, 2 notches on south and 4 notches on north edges, and raised a mound of stone 2 feet high, $4\frac{1}{2}$ feet base, west of corner.

Pits impracticable.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chamisal.

Mountainous land, 80.00 chains.

W. Bdy. T. 3 N., R. 14 W., S.B.M.

South 0°10' east on a true line between Sections 25 and 30.

Descend.

0.30 Canada, 100 links wide, 200 feet below top of last spur, course west.

Ascend.

16.20 Top of spur 500 feet above canada, bears north and south.

Descend.

22.25 Gulch 30 links wide, 200 feet below spur, course west and across gravelly wash.

37.00 Forks of wagon road, bears west, northeast and southeast.

38.00 Gulch, 40 links wide, course west, leave wash and ascend.

40.86½ Set a granite stone 20x14x8 inches, 15 inches in the ground, for quarter section corner, marked S.G.F.R. on east face, ¼ on west face, and raised a mound of stone 1½ ft. high, 3½ feet base, west of corner.

Pits impracticable.

42.00 Top of spur 175 feet above gulch, bears east and west.

Descend.

48.75 Gulch, 10 links wide, 200 feet below top of spur, course west.

Ascend

60.00 Top of ridge, 700 feet above gulch, bears east and southwest.

Descend.

81.73 Set a sandstone, 20x10x8 inches, 15 inches in the ground for corner to Sections 25, 30, 31 and 36, marked S.G.F.R. on east face; with 5 notches on north and 1 notch on south edges; dug pits 18x18x12 inches, in each section, 5½ feet distant, and raised a mound of earth, 2½ feet high, 4 feet base west of corner.

Land, mountainous.

Soil, third rate.

W. Bdy. T.3 N., R.14 W., S.B.M.

No timber.

Dense undergrowth of chamisal.

Mountainous land, 80.00 chains.

South 0°10' east on a true line between Sections 31 and 36.

Descend.

- 13.00 Gulch, 10 links wide, 900 feet below top of ridge, course southwest. Ascend.
- 15.75 Top of ridge 200 feet above gulch, bears northeast and southwest. Descend.
- 32.00 Gulch 20 links wide, 400 feet below top of ridge, course southwest. Ascend.
- 38.00 Top of ridge 90 feet above gulch, bears northeast and southwest. Wisker's house, bears north 55½° east, about 10.00 chains distant. Descend.
- 40.86½ Set a washed boulder, 20x10x10 inches, 15 inches in the ground for quarter section corner, marked $\frac{1}{4}$ on west face; and raised a mound of stone, 1½ feet high, 2 feet base west of corner. Pits impracticable. Stone also marked S.G.F.R. on east.
- 41.25 Dry bed of stream, 10 links wide, 175 feet below top of ridge, course south 20° west and over plowed field, bears northeast and southwest.
- 46.00 Wisker's old house bears W. 70 links distant.
- 47.00 Leave field, bears northeast and southwest, cross wagon road, bears north 20° east and south 20° west. Ascend.

W. 847. T. 3 N., R. 14 W., S.R.M.

- 49.00 Wire fence, bears east and west.
- 54.00 Top of spur 300 feet above stream, bears east and west.
Descend.
- 72.00 Ravine, 100 links wide, 270 feet below top of spur, course south-
west. A tank bears southwest, about 3.00 chains distant.
- 72.10 Wagon road, bears northeast and southwest.
- 76.50 Top of spur, 100 feet above ravine, bears east and west.
Descend.
- 78.00 Gulch, 20 links wide, 75 feet below top of spur, course west.
Ascend.
- 80.50 Top of spur bears east and west, 200 feet above gulch.
Descend.
- 81.73 True point for corner to townships 2 and 3 north, ranges 14 and 15 West.
Land, mountainous.
Soil, first and third rate.
No timber.
Dense undergrowth of chamisal.
Mountainous land, 89.25 chains.

From the corner to Sections 1, 6, 7 and 12, on west boundary of
township, previously described, I run north on a random line
between Sections 1 and 6.

- 40.00 After diligent search, failing to find any tract of old quarter
section corner, I set temporary quarter section corner and continue
north.
- 80.60 To a point 10 links east of corner to Tps. 3 and 4 north, Rs. 14 and
15 west, which is a granite stone 5 x 10 x 12 inches above the ground,
marked as described by the Surveyor General, the mound destroyed.
To remark corner and to establish corner No. 36 on boundary of San
Gabriel Forest Reservation, I set a square,

W. Bdy. T. 3 N., R. 14 W., S.B.M.

hollow iron post, filled with cement, etc., 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom 12 inches in the ground, marked

T 4 N S 31 on northeast;

S.G.F.R. 36, R.14 W. S 6 on southeast;

T 3 N. S 1 on southwest, and

R 15 W S 36 on northwest faces,

and raised a mound of stone, $1\frac{1}{2}$ ft. high, 5 feet base around post; from which bears a live oak 12 inches dia. south $14\frac{1}{2}^{\circ}$ east, 145 links distant, marked S.G.F.R. 36, T.3 N. R.14 W. S 6 B.T.

A live oak 10 inches dia. south 16° west, 76 links distant, marked S.G.F.R. 36, T.3 N., R.15 W. S. 1 B.T. No other tree within limits; pits impracticable. I destroyed old corner.

Thence I run

South $0^{\circ}04'$ east on a true line between Sections 1 and 6.

Descend.

2.15 Gulch, 30 links wide, course southwest.

Ascend.

8.50 Top of spur 200 feet above township corner, bears northeast and southwest. Descend.

13.70 Gulch, 170 links wide, 150 feet below top of spur, course west.

Ascend.

22.50 Top of ridge, 700 feet above gulch, bears east and west.

Thence along west slope of same, across slides and washes.

39.00 The true point for quarter section corner, falling in slides, not a suitable place to mark at this point, which is 1.30 chains north $0^{\circ}04'$ west of true point.

I set sandstone 20 x 20 x 5 inches, 15 inches in the

W. Bdy. T. 3 N., R. 14 W., S. B. M.

ground, for witness corner to quarter section corner, marked
W.C. $\frac{1}{4}$ on west face, S.G.F.R. on east face, and raised a stone
mound $1\frac{1}{2}$ feet high, 2 feet base west of corner.

Pite impracticable.

- 40.30 The true point for quarter section corner in steep slide,
bears east and west.
- 44.00 Top of spur bears east and west.
Descend.
- 45.50 Wash, 5 links wide, course west.
Ascend.
- 54.50 Top of spur bears east and west.
Descend.
- 60.00 Steep slide, bears east and west.
Ascend.
- 65.50 Trail, on top of spur, bears east and west.
Descend.
- 67.60 Bottom of ravine, 60 links wide, 30 feet deep, course west.
Ascend.
- 80.60 To corner to Sections 1, 6, 7 and 12.
Land, mountainous.
Soil, third rate.
Dense undergrowth of chaparral.
No timber.
Mountainous land, 80.60 chains.

September 24, 1896.

Boundary Line Of San Gabriel Forest
Reservation along W. B. T. 4 N., R. 14 W. S.B.M.

At the corner to townships 3 and 4 north, ranges 14 and 15 west, in lat. $34^{\circ}24'$ north, long. $118^{\circ}24'$ west, at 7 h. 13m. P.M., I observe Polaris at eastern elongation, and mark the line thus determined by a tack driven in a wooden plug set in the ground, 5 chains north of my station.

September 25th, at 6h. 30m. A.M., l.m.t., I lay off the azimuth of Polaris $1^{\circ}30.06'$ to the west and mark the true meridian thus determined by cutting a mark on a stone set firmly in the ground, west of the point established last night.

The mag. bearing is north $15^{\circ}01'$ west, which reduced by the table on page 100 of the manual gives the mean magnetic declination $15^{\circ}00'$ east. At 7h. 00m. A.M., l.m.t. I set off $34^{\circ}24'$ north on the lat arc; $1^{\circ}09'$ south on the decl. arc and determine the true meridian with the solar at the corner to townships 3 and 4 north, ranges 14 and 15 west, previously described. From the corner to townships 3 and 4 north, ranges 14 and 15 west, I run north on a random line along boundary.

I make diligent search for old corners, along line, but failing to find any trace of same, set temporary corners at every 40.00 chains and at 230.10 chains arrive at a point 2.03 chains west of corner to Sections 13, 18, 19 and 24, where I found a portion of an old mound, but no other trace of corner.

To fully establish the position of this corner, I go to the quarter section corner between Sections 13 and 18, on the west boundary of township, which is a decayed stake, in an old stone mound. I destroy stake and to remark corner set a sandstone $16 \times 10 \times 8$ inches, 11 inches in the ground, marked $\frac{1}{4}$ on west face; and rebuilt stone mound, $1\frac{1}{2}$ ft. high, 2 feet base west of corner.

W.B. T. 4 N., R. 14 W., S.E.M.

Pits impracticable.

Thence I run

south on a random line between Sections 13 and 15.

40.00 To old mound, the remains of corner to Sections 13 and 15, 19 and 24. To remark this corner and to establish corner No. 37 on boundary of San Gabriel Forest Reservation, this point being on the embankment of the Southern Pacific R.R., not a suitable place to mark, I ran east 175. links and set a square, hollow iron post, filled with cement, etc., 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground, for witness corner to said corner, marked

T. 4 N. S. 15 on northeast,

S.G.F.R. 37 R.14 W.S. 19 on southeast;

R. 15 W. S. 24 on southwest, and

S. 13 on northwest faces; dug pits

36 x 36 x 12 inches east and west of

post, 4 feet distant, and raised a mound of earth, 1½ feet high, 5 feet base around post; alongside which I set a washed boulder, 24x17x11 inches, 15 inches on the ground, marked W.C., 1.75 chains on west face.

Thence I run

North on a true line between Sections 13 and 15. Ascend.

9.50 Top of ridge 300 feet above section corner, bears east and west. Descend.

27.00 Dry bed of Santa Clara river, 150 links wide, 700 feet below top of ridge, course southwest and thru Santa Clara valley.

32.00 Wagon road, bears northeast and southwest.

36.00 Leave Santa Clara valley, bears N.E. and S.W.

Ascend.

W.B. T.4 N., R.14 W., S.B.M.

40.00 The quarter section corner.

Land, mountainous and rolling valley.

Soil, second and third rate.

No timber.

Dense undergrowth of chamiseal.

Mountainous land, 31.00 chains.

From true corner to Sections 13, 18, 19 and 24, I run South
0°30' west on a true line between Sections 19 and 24. Over
embankment of the Southern Pacific Railroad.

0.30 Southern Pacific Railroad track, bears north 30° east, south 30° west.

1.75 Right of way fence bears north 30° east and south 30° west.

Ascend.

23.00 Top of ridge, 300 feet above section corner, bears east and south-
west and along same.

26.00 Leave top of ridge and descend.

26.30 Head of gulch, course southwest.

Ascend.

28.50 Top of spur, 90 feet above gulch, bears northeast and southwest.
Descend.

38.00 Enter valley bears southeast and west.

38.59 Set an oak post, 3 feet long, 3 inches square, 24 inches in the
ground, for quarter section corner, marked $\frac{1}{4}$ S. on west face, and
S.G.F.R. on east face; from which bears a live oak 12 inches dia.
north 56 $\frac{1}{4}$ ° east, 216 links distant, marked S.G.F.R. $\frac{1}{4}$ S.E.T.

No other tree within limits; dug a pit 18 x 18 x 12 ins. south
of post, 3 feet distant and raised a mound of earth 1 $\frac{1}{2}$ feet high,
3 $\frac{1}{2}$ feet base west of corner.

W.B. T. 4 N., R. 14 W., S.B.M.

46.90 Wagon road bears east and west.

50.00 Leave valley bears east and west.

Ascend.

58.50 Top of ridge 200 feet above valley, bears northeast and southwest.

Descend.

74.50 Enter gravel wash and dense growth of scrub oak timber.

77.18 Set a post 3 feet long, 4 inches square, 24 inches in the ground, for corner to Sections 19, 24, 25 and 30, marked

T. 4 N. S. 19 S.S.G.F.R. on northeast,

R.14 W. S. 30 on southeast

R.15 W., S. 25 on southwest and

S.24 on northwest faces; with 2 notches on

south and 4 notches on north edges; from which bears a live oak 24 inches dia. north 72° west, 107 links distant, marked T. 4 N.

R. 15 W., S. 24 B.T. No other tree within limits; raised a stone mound, 2½ feet high, 4 feet base, west of corner.

Pits impracticable.

Land, mountainous and rolling valley.

Soil, third rate.

Dense growth of scrub oak timber, 1.50 chains.

Dense undergrowth of chamisal.

Mountainous land, 68.00 chains.

South 0°30' west on a true line between Sections 25 and 30.

Along east edge of dense live oak timber, through gravel wash.

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38.50 Set a washed boulder, 30 x 10 x 8 inches, 22 inches in the ground for quarter section corner, marked S.G.F.R. on east face, ¼ on west face; and raised a mound of

W. B. T. 4 N., R. 14 W., S. B. M.

stone, $1\frac{1}{2}$ feet high, 2 feet base west of corner.

Fits impracticable.

42.50 Leave wash and timber and ascend.

51.00 Top of spur, 300 feet above wash, bears east and west.

Descend.

75.50 Gulch, 15 links wide, 500 feet below top of spur, course northwest.
Ascend.

77.17 Set a sandstone 20 x 16 x 6 inches, 15 inches in the ground, for corner to Sections 25, 30, 31 and 36, marked S.O.F.R. on east face, with 1 notch on south and 5 notches on north edges; dug pits 18 x 18 x 12 inches, in each section, $5\frac{1}{2}$ feet distant, and raised an earth mound, 4 feet base, 2 feet high west of corner.
Land, mountainous and broken.

Soil, third rate.

Timber of scrub oak, 12.50 chains.

Dense undergrowth of chaparral.

Mountainous land, 37.50 chains.

South $0^{\circ}30'$ west on a true line between Sections 31 and 36.

Ascend.

2.50 Top of ridge 300 feet above last gulch, bears northwest and southeast.

Descend.

26.50 Dry bed of gulch, 320 links wide, 175 feet below top of ridge, course west.

Ascend.

38.00 Top of spur, 250 feet above gulch, bears east and west.

Descend.

38.59 The true point for quarter section corner falls in slide, not a suitable place to mark. I therefore continue.

W.B. T. 4 N., R. 14 W., S. R. M.

South $0^{\circ}30'$ west and at

- 40.50 Set a sandstone 20 x 15 x 12 inches, 15 inches in the ground, for witness corner to quarter section corner, marked S.G.F.R. W.C. $\frac{1}{4}$ on west face; and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet west of corner.

Pits impracticable.

- 56.80 Gulch 15 links wide, 500 feet below top of spur, course northwest. Ascend.

- 62.00 Top of ridge, 250 feet above gulch, bears east and west. Descend.

- 75.74 The corner to townships 3 and 4 north ranges 14 and 15 west.

Land, mountainous.

Soil, third rate.

Dense undergrowth of chamisal.

Mountainous land, 70.10 chains.

September 25th, 1896.

Resurvey of Subdivisions of
T. 4 N., R. 14 W. S.B.M.

September 26th; at 7 h. 00m. A.M., l.m.t., I set off $34^{\circ}27'$ north on the lat. arc; $1^{\circ}33'$ south on the decl. arc. and determine a true meridian with the solar, at the corner to Sections 13, 18, 19 and 24. From the true point for corner to Sections 13, 18, 19 and 24, on west boundary of T. 4 N., R. 14 W., I run east on a random line between Sections 18 and 19, 17 and 20 and 16 and 21.

I make diligent search, for old corners along the line, but failed to find any trace of same, excepting at

- 254.15 Slight marks of an old stone mound, which I judge marks the corner to Sections 15, 16, 21 and 22, which is 120 links south of point of intersection of my line. To determine the true position of the corner, I go to the corner to Sections 9, 10, 15 and 16, the nearest marked corner, which is a post, partly decayed, some of the marks legible, in a stone mound, in bad condition. I destroy post and in its place, set a granite stone, $20 \times 12 \times 8$ inches 15 inches in the ground, marked with 4 notches on south and 3 notches on east edges; and rebuild stone mound, $1\frac{1}{2}$ feet high, 2 feet base west of corner.

Pits impracticable.

Thence I run

South on a random line between Sections 15 and 16.

- 40.00 After diligent search, being unable to find any trace of old quarter section corner, I set temporary quarter section corner and continue south.
- 80.00 To traces of old stone mound, found on running random line east in a steep slide, not a suitable place to mark. I therefore run west, 1.00 chain and to remark corner and to establish corner No. 38 on boundary of San Gabriel Forest at this point, I set a square hollow iron post, filled with cement, etc., 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the

Resurvey of Subdivisions
R.4 N., R.14 W. S.E.M.

bottom, 12 inches in the ground, for witness corner to corner No. 38 on boundary of reservation and corner to Sections 15,16,21 and 22, marked

T. 4 N., S. 15 on northeast

S.G.F.R. 38, R.14 W. S.22 on southeast,

S. 21 on southwest, and

S. 16 on northwest faces; dug pits 36 x

36 x 12 inches north and south of post, 4 feet distant and raised a mound of earth $1\frac{1}{2}$ feet high, 5 feet base around post, alongside which I set a granite stone 20x16x14 inches, 15 inches in the ground, marked W.C. 1.00 ch. on east face.

From true corner to Sections 15,16,21 and 22, I run north on a true line between Sections 15 and 16.

Ascend.

4.00 Top of spur, 75 feet above section/corner, bears northeast and southwest.
Descend.

20.00 Gulch, 3 links wide, 300 feet below top of spur, course west.
Ascend.

40.00 Set a granite stone 24 x 12 x 10 inches, 18 inches in the ground for quarter section corner, marked $\frac{1}{4}$ on west face; and raised a stone mound $1\frac{1}{2}$ feet high, 2 feet base west of corner.
Pits impracticable.

47.00 Top of spur, 400 feet above gulch, bears northeast and southwest.
Descend.

68.25 Wagon road to Ravenna, bears east and west.

68.80 Southern Pacific Railroad track, bears east and west.

71.50 Santa Clara river, 8 links wide, 250 feet below top of spur, course north 80° west.
Ascend.

80.00 The corner to Sections 9, 10, 15 and 16.

Resurvey of Subdivisions of
R.4 N., R.14 W., S.B.M.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

From the true point for corner to Sections 13,18,19 and 24, on west boundary of township to true point for corner to Sections 15,16,21 and 22, my random line was 254.15 chains long and falling 120 links north of true corner to Sections 15,16,21 and 22.

Whence I run

North $89^{\circ}44'$ west on a true line between Sections 16 and 21.

Descend.

7.50 Bear creek canon, 20 links wide, 400 feet below section corner, course northwest.

Ascend.

27.70 Top of spur 700 feet above canon, bears north and south.

Descend.

37.00 Wash, 300 feet below top of spur, course north.

Ascend.

41.47 The true point for quarter section corner, falls on side of wash, where I find it impossible to set quarter section corner, I continue north $89^{\circ}44'$ west and at

46.20 Set a granite stone, 22x12x10 inches, 16 inches in the ground for witness corner to quarter section corner marked W.C. $\frac{1}{4}$ on north face; S.G.F.R. on south face; and raised a mound of stone $1\frac{1}{2}$ feet high, 2 feet base north of corner.

Pits impracticable.

Corner set on top of spur, bears north and south, 500 feet above wash.

Descend.

Boundary Line of San Gabriel Forest Reservation
through T. 4 N., R. 14 W. S.E.M.

- 53.75 Gulch 10 links wide, 300 feet below W.C., course northwest.
Ascend.
- 68.00 Top of spur bears north 30° east and south 30° west.
600 feet above gulch.
Descend.
- 76.00 Gulch 20 links wide, 275 feet below top of spur, course north.
Ascend.
- 82.94 Set a cement stone, 20x14x8 inches, 15 inches in the ground, for
corner to Sections 16, 17, 20 and 21, marked with 4 notches on east
and 3 notches on south edges; dug pits in each section, 5½ feet
distant, and raised a mound of earth, 4 feet base, 2 feet high
west of corner. Stone also marked S.G.F.R. on south.
Land, mountainous.
Soil, third rate.
No timber.
Dense undergrowth of chaparral.
Mountainous land, 80.00 chains.
-
- North 89°44' west on a true line between Sections 17 and 20.
Ascend.
- 5.50 Top of spur, 400 feet above last gulch, bears northeast and south
west.
Descend.
- 7.00 Cross low sag, 100 feet below top of spur, bears northeast and
southwest.
Ascend.
- 10.00 Top of ridge 200 feet above sag, bears northeast and southwest.
Descend.

Boundary Line of San Gabriel Forest Reservation
Through T 4 N. R. 14 W., S.E.M.

- 31.00 Bed of gulch, 30 links wide, 350 feet below top of ridge course north.
Ascend.
- 34.25 Top of spur, 100 feet above gulch, bears northeast and southwest.
Descend.
- 37.00 Gulch 8 links wide, 90 feet below top of spur, course northeast.
Ascend.
- 41.94 Set a granite stone 30x18x8 inches, 22 inches in the ground for quarter section corner, marked S.G.F.R. on south face, $\frac{1}{4}$ on north face; and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base north of corner.
Pits impracticable.
- 40.25 Top of spur 100 feet above gulch, bears northeast and southwest.
Descend.
- 45.00 Gulch 20 links wide, 200 feet below top of spur, course north 70° east.
Ascend.
- 51.25 Top of ridge, 150 feet above gulch, bears northeast and southwest.
Descend.
- 57.40 Gulch 15 links wide, 200 feet below top of ridge, course north.
Ascend.
- 61.60 Top of spur, 175 feet above gulch, bears north and south.
Descend.
- 75.75 Gulch, 10 links wide, 350 feet below top of spur, course north 30° east.
Ascend.
- 83.88 A granite boulder 4x3x3 feet above ground which I mark with X at exact corner point, with 3 notches on south and 5 notches on east edges, for corner to Sections 17, 18, 19 and 20, and raised a mound of stone, 2 feet high.

T. 4 N., R. 14 W., S. E. M.

3½ feet base north of corner.

Pits impracticable.

Stone also marked S.G.F.R. on south.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chamisal.

Mountainous land, 80.00 chains.

North 89°44' west on a true line between Sections 18 and 19.
Ascend.

11.75 Top of spur 500 feet above last gulch, course north.

Descend.

17.50 Gulch 10 links wide, 200 feet below top of spur, course north
25° west.

Ascend.

20.50 Top of spur 190 feet above gulch, bears north and south.

Descend.

22.25 Gulch 15 links wide, 75 feet below top of spur, course north.

Ascend.

27.50 Top of spur, 150 feet above gulch, bears north and south.

Descend.

30.75 Gulch, 90 feet below top of spur, course north.

Ascend.

35.50 Top of spur, 175 feet above gulch, bears north and south.

Descend.

41.83 Set a washed boulder, 20x12x10 inches, 15 inches in the ground,
for quarter section corner, marked S.G.F.R. on south face, ¼ on
north face; and raised a mound of stone, covered with earth,
4 feet base, 2½ feet high north of corner.

R. 4 N., R. 14 W., S.B.M.

- 49.50 Gulch, 30 lks. wide, 300 feet below top of spur, course north.
Ascend.
- 56.50 Top of spur, 150 feet above gulch, bears north and south.
Descend.
- 61.25 Wash, 40 links wide, 90 feet below top of spur, course northwest.
Ascend.
- 66.50 Top of spur bears northwest and southeast, 150 feet above wash.
Descend.
- 68.25 Head of gulch, 75 feet below top of spur, course northwest.
Ascend.
- 72.00 Top of spur bears northeast and southwest, 110 feet above gulch.
Descend.
- 83.75 Gulch 20 links wide, 300 feet below top of spur, course north.
Ascend.
- 85.25 Top of ridge, 250 feet above gulch, bears northwest and southeast.
Descend.
- 85.58 To iron post, No. 37, on boundary of San Gabriel Forest Reservation.
- 87.33 To true point for corner to Sections 13, 18, 19 and 24, on west
boundary of township.
- Land, mountainous.
- Soil, third rate.
- No timber.
- Dense undergrowth of chamisal.
- Mountainous land, 94.15 chains.

September 26, 1896.

Resurvey of E. Bdy. T.4 N.R.14 W. S.B.M.

September 28th; at 7h. 00m. A.M., l.m.t. I set off $34^{\circ}25'$ north on the lat. arc; $2^{\circ}20'$ south on the decl. arc. and determine a true meridian with the solar, at the reestablished corner to Sections 15, 16, 21 and 22. From the reestablished corner to Sections 15, 16, 21 and 22, I run

East on a random line between Sections 15 and 22, 14 and 23, 13 and 24, 240.00 chains. I make a diligent search for any trace of old corners on line but am unsuccessful. To locate the corner to Sections 13, 18, 19 and 24 on east boundary of township, I set temporary section corner at this point, and go to the witness corner to Sections 7, 12, 13 and 18. 3.30 chains north of true point for corner, which is a badly decayed post in stone mound from which bears;

A cottonwood 24 inches dia. north $24\frac{1}{2}^{\circ}$ east, 168 links distant, marked T 4 N R 13 W S 7 B T.

A cottonwood 20 inches dia. north 1° west, 360 links distant, marked T 4 N R 14 W S 12 B T.

I destroyed old post and in its place set a post 4 feet long, 4 inches square, 24 inches in the ground, marked

W.C.T. 4 N. S. 7 on northeast;

R. 13 W. S. 18 on southeast;

R. 14 W. S. 13 on southwest and

S. 12 on northwest faces, with 4 notches on south and 2 notches on north edges, and rebuilt stone mound around same.

Pits impracticable.

Thence I run

South on a random line between Sections 13 and 18.

40.30 Found no trace of quarter section corner, after diligent search.

Set temporary quarter section corner and continue south.

83.30 To a point 150 links east and 125 links south of temporary corner to Sections 13, 18, 19 and 24, to remark corner

Resurvey of E.Bdy. T.4 N., R.14 W., S.B.M.

to above sections and to establish corner No.39, boundary of San Gabriel Forest Reservation at this point, I set a square hollow iron post, filled with cement, etc., 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom 12 inches in the ground, marked-

T. 4 N., S.18 on northeast

S.G.F.R. 39, R.13 W., S.19 on southeast;

R. 14 W. S. 24 on southwest, and

S. 13 on northwest faces; dug pits 36x36

x 12 inches north and south of post, 4 feet distant and raised a mound of earth 1 foot high, 5 feet base around post.

Thence I run

North on a true line between Sections 13 and 18.

Descend.

5.00 Head of gulch, 100 feet below section corner, course west.

Ascend.

12.75 Top of spur, 210 feet above gulch, bears east and west.

Descend.

16.00 Head of gulch, 90 feet below top of spur, course northwest.

Ascend.

21.00 Top of spur 170 feet above gulch, bears north 60° west and south 60° east.

Descend.

30.00 Gulch 200 feet below top of spur, 4 links wide, course west.

Ascend.

33.50 Top of spur, 70 feet above gulch, bears east and west.

Descend.

38.50 Gulch, 3 links wide, 170 feet below top of spur, course west.

Ascend.

T. 4 N., R. 14 W., S.B.M.

- 40.00 Set a granite stone, 16x14x6 inches, 11 inches in the ground, for quarter section corner, marked $\frac{1}{4}$ on west face; dug pits 16x16x12 inches north and south of stone, 3 feet distant, and raised a mound of earth $1\frac{1}{2}$ feet high, $3\frac{1}{2}$ feet base west of corner.
- 61.00 Top of ridge, 600 feet above gulch, bears northeast and southwest. Descend.
- 70.00 Gulch, 10 links wide, 250 feet below top of ridge, course west; Ascend.
- 73.50 Top of spur, 90 feet above gulch, bears east and west. Descend.
- 80.00 True point for corner to Sections 7, 12, 13 and 18, which falls on perpendicular bluff, bears east and west.
Land, mountainous.
Soil, third rate.
Timber of cottonwood.
Dense undergrowth of chaparral.
Mountainous land, 80.00 chains.

Boundary Line of San Gabriel Forest Reservation
through T. 4 N., R. 14 W., S.B.M.

From the reestablished corner to Sections 13, 18, 19 and 24, on east boundary of township, I run
North $89^{\circ}42'$ west on a true line between Sections 13 and 24.
Descend.

- 15.10 Gulch 10 links wide, 400 feet below section corner, course north 20° east and continue descent.
- 22.60 Enter dry bed of gulch, 6 links wide.
- 25.10 Leave same, course north 88° east and continue descent.
- 26.60 Enter dry bed of same gulch.
- 30.00 Leave same, course north.
Ascend.

Boundary Line of San Gabriel Forest Reservation
Through T. 4 N., R. 14 W., S.E.M.

- 39.80 Top of ridge bears north and south, 250 feet above gulch.
Descend.
- 41.42 Set a granite stone 25x10x10 inches, 21 inches in the ground for quarter section corner, marked $\frac{1}{4}$ on north face; S.G.F.R. on south face; and raised a mound of stone 2 feet base, $1\frac{1}{2}$ feet high north of corner.
Pits impracticable.
- 42.00 Cross low sag, 100 feet below top of spur, course southeast.
Ascend.
- 51.50 Top of ridge, 500 feet above sag, bears northeast and southwest.
Descend.
- 56.00 Gulch, 3 links wide, 150 feet below top of ridge, course north.
Ascend.
- 60.25 Top of spur, 200 feet above gulch, bears north and south.
Descend.
- 72.00 Gulch 3 links wide, 500 feet below top of spur, course north 30° west.
Ascend.
- 81.42 Set a granite stone, 20x12x10 inches, 15 inches in the ground, for corner to Sections 13, 14, 23 and 24, marked with 1 notch on east and S.G.F.R. with 3 notches on south edges; and raised a mound of stone $1\frac{1}{2}$ feet high, 2 feet base west of corner.
Pits impracticable.
Land, mountainous.
Soil, third rate.
No timber.
Dense undergrowth of chaparral.
Mountainous land, 50.50 chains.
-
- North $89^\circ 42'$ west on a true line between Sections 14 and 23.
Ascend.
- 2.00 Top of spur, 100 feet above last gulch, bears north 30° east and south 30° west.
Descend.

Boundary Line of San Gabriel Forest Reservation
Through T. 4 N., R. 14 W., S.B.M.

- 10.00 Gulch, 2 links wide, 200 feet below top of spur, course northeast.
Ascend.
- 14.25 Top of ridge, 90 feet above gulch, bears north and south.
Descend.
- 27.50 Gulch, 4 links wide, 600 feet below top of ridge, course north.
Ascend.
- 39.95 Set a granite stone 24x10x8 inches, 18 inches in the ground, for
quarter section corner, marked S.G.F.R. on south face, $\frac{1}{4}$ on north
face; and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base north
of corner.
Pits impracticable.
- 52.00 Top of ridge, 900 feet above last gulch, bears northwest and
southeast.
Descend.
- 58.00 Head of gulch, 300 feet below top of ridge, course southeast.
Ascend.
- 63.50 Top of ridge, 150 feet above gulch, bears northeast and southwest.
Descend.
- 70.00 Gulch 10 links wide, 210 feet below top of ridge, course north
70° west.
- 75.00 Top of spur, 90 feet above gulch bears north and south.
Descend.
- 79.90 Set a granite stone, 22x14x6 inches, 16 inches in the ground,
for corner to Sections 14, 15, 22 and 23, marked with 2 notches
on east and S.G.F.R. with 3 notches on south edges; and raised
a mound of stone $1\frac{1}{2}$ feet high, 2 feet base west of corner.
Pits impracticable.
Land, mountainous.

Boundary Line of San Gabriel Forest Reservation
Through T. 4 N., R. 14 W., S. B. M.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.50 chains.

North 89°42' west on a true line between Sections 15 and 22.

Descend.

0.40 Head of gulch, course southwest.

Ascend.

0.60 Top of spur bears north and south.

Descend.

9.50 Gulch, 3 links wide, 150 feet below section corner, course southwest.

Ascend.

19.50 Top of spur, 200 feet above gulch, bears northwest and southeast.

Descend.

23.00 Head of gulch, 90 feet below top of spur, course southeast.

Ascend.

33.00 Top of ridge 300 feet above gulch, bears north 80° east and north 80° west and along same.

37.00 Leave top of ridge, bears southwest.

Descend.

40.90 Set a sandstone 20x16x6 inches, 15 inches in the ground for quarter section corner, marked S.G.F.R. on south face, $\frac{1}{4}$ on north face, and raised a stone mound $1\frac{1}{2}$ feet high 2 feet base north of corner.

Pits impracticable.

53.00 Gulch 3 links wide, 400 feet below top of ridge, course southwest.

Ascend.

55.60 Top of spur, 90 feet above gulch bears northeast and southwest.

Boundary Line of San Gabriel Forest Reservation
Through T. 4 N., R. 14 W., S.B.M.

Descend.

58.00 Gulch 8 links wide, 110 feet below top of spur, course southwest.

Ascend.

70.00 Top of spur 50 feet above gulch, bears northeast and southwest.

Descend.

73.60 Same Gulch 8 links wide, 60 feet below top of spur, course north
80° west.

Ascend.

77.20 Top of spur 100 feet above gulch, bears north and south.

Descend.

80.18 The corner to Sections 15, 16, 21 and 22.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.50 chains.

September 28, 1896.

Resurvey of Subdivisions of T.4 N., R.13 W., S.B.M.

September 29th; at 7h. 00m. A.M., l.m.t., I set off $34^{\circ}25'$ north on the lat. arc; $2^{\circ}42'$ south on the decl. arc. and determine a true meridian with the solar at the following corner.

From the reestablished corner to Sections 13, 18, 19 and 24, on the west boundary of township, I run East on a random line between Sections 18 and 19, 17 and 20 and 16 and 21.

After diligent search being unable to find any trace of old corners along line I set temporary corners at every 40 chains and 242.37 chains arrive at a point 224 links north of slight traces of an old stone mound.

In order to thoroughly establish the position of this corner, I go to the corner to Sections 9, 10, 15 and 16, which is a mound of stone and an iron bolt, as described by the Surveyor General.

Thence I run

South on a random line between Sections 15 and 16.

40.00 Found no trace of old quarter section corner.

After diligent search, set temporary quarter section corner.

80.96 To a point 7 links west of traces of old rock mound, which must be the remains of old witness corner to Sections 15, 16, 21 and 22; I destroy same, run north 82 links to true point for corner to Sections 15, 16, 21 and 22, and to establish same, also to mark corner No. 40 on boundary of San Gabriel Forest Reservation, set a square, hollow iron post, filled with cement, 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground marked

T. 4 N. S. 15 on northeast

S.G.F.R. 40, R.13 W.S. 22 on southeast,

S. 21 on southwest and

S. 16 on northwest faces; dug pits

36x36x12

Resurvey of Subdivisions of T.4 N., R.13 W., S.B.M.

inches, north and south of post, 4 feet distant, and raised an earth mound, $1\frac{1}{2}$ feet high, 5 feet base, around post.

Thence I run

North $0^{\circ}03'$ west on a true line between Sections 15 and 16.

Descend.

2.71 Gulch, 10 links wide, course north 10° west.

Ascend.

11.46 Top of spur, 200 feet above corner bears northwest and southeast.

Descend.

15.21 Gulch, 10 links wide, 100 feet below top of spur, course southwest.

Ascend.

16.46 Top of spur, 40 feet above gulch, bears east and west.

Descend.

18.71 Gulch, 10 links wide, 90 feet below top of spur, course southwest.

Ascend.

27.96 Top of hill, bears NE. and SW.

Descend.

40.00 Cor. of fence bears north, east and west and set a redwood post, 3 feet long, 3 inches square, with marked stone 24 inches in the ground, for quarter section corner, marked $\frac{1}{4}$ S on west face; dug pits $18 \times 18 \times 12$ inches, north and south of post, 3 feet distant and raised a mound of earth, $3\frac{1}{2}$ feet base, $1\frac{1}{2}$ feet high west of corner.

65.40 Enter swamp, bears east and west.

69.50 Ditch, 2 feet deep, course west.

70.00 Santa Clara river, 10 links wide, course west.

77.00 Leave swamp. Ascend.

78.20 Southern Pacific Railroad, middle of track, bears east and west.

79.39 Road to Ravenna, bears east and west.

Resurvey of Subdivisions of T.4 N., R.13 W., S.B.M.

80.00 The corner to Sections 9,10,15 and 16.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

The true corner to Sections 15,16,21 and 22, being 128 links south of point of intersection of random line, previously run, with line between Sections 15 and 16.

I run from this corner

North $89^{\circ}42'$ west on a true line between Sections 16 and 21.

Descend.

10.25 Enter bed of gulch, 100 feet below section corner, course north $89^{\circ}45'$ west.

13.60 Leave same, course north.

Ascend.

27.80 Top of spur, 200 feet above gulch, bears north and south.

Descend.

38.80 Gulch, 15 links wide, 300 feet below top of spur, course north 20° west.

Ascend.

40.73 Set a granite stone $18 \times 10 \times 8$ inches, 12 inches in the ground, for quarter section corner marked $\frac{1}{4}$ on north face, and S.G.F.R. on south face; dug pits $18 \times 18 \times 12$ inches east and west of stone, 3 feet distant and raised an earth mound, $3\frac{1}{2}$ feet base, $1\frac{1}{2}$ feet high north of corner.

41.50 Top of spur, 90 feet above gulch bears north and south.

Descend.

42.50 Gulch, 15 links wide, 50 feet below top of spur, course north 20° east.

Ascend.

55.25 Top of spur 300 feet above gulch, bears north and south.

Descend.

Resurvey of Subdivisions of R.4 N., R.13 W. S.E.M.

63.00 Bed of gulch, 25 links wide, 10 feet deep, course north.

63.40 Wagon road bears north and southwest.

Ascend.

73.50 Top of spur, 150 feet above gulch, bears northwest and southeast .

Descend.

79.75 Head of gulch 10 links wide, 90 feet below top of spur, course southeast.

Ascend.

81.45 Set an oak post, 3 feet long, 4 inches square, 24 inches in the ground, for corner to Sections 16, 17, 20 and 21, marked

T.4 N., S. 16 on northeast,

R 13 W., S.21 on southeast,

S.G.F.R. S.20 on southwest and

S.17 on northwest faces; with 3 notches on south and 4 notches on east edges; from which bears

A sycamore 14 inches dia. south 44 east, 87 links distant, marked T. 4 N. R.13 W. S.G.F.R. S. 21 B.T.

No other tree within limits; raised a mound of stone 2 feet high, $3\frac{1}{2}$ feet base, west of corner.

Fits impracticable.

Land, mountainous.

Soil, third rate.

Scattering sycamore timber.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

North $89^{\circ}42'$ west on a true line between Sections 17 and 20.

Ascend.

22.00 Top of ridge 500 feet above last gulch, bears northwest and southeast
Descend.

30.00 Gulch 4 links wide, 200 feet below top of ridge, course northwest.

Resurvey of Subdivisions of R.4 N. R.13 W. S.B.M.

Ascend.

35.50 Top of spur, 90 feet above gulch, bears north and south.

Descend.

37.00 Gulch, 10 links wide, 30 feet below top of spur, course northwest.

Ascend.

40.76 Set a sandstone 15x12x10 inches, 12 inches in the ground, for quarter section corner, marked $\frac{1}{4}$ on north face; dug pits 15x15x12 inches, east and west of stone, 3 feet distant, and raised an earth mound, $1\frac{1}{2}$ feet high, $3\frac{1}{2}$ feet base, north of corner.

Also marked stone S.G.F.R. on south face.

41.50 Top of ridge, 100 feet above last gulch, bears north and south.

Descend.

53.50 Gulch 10 links wide, 300 feet below top of ridge, course south 70° west. Ascend.

55.50 Top of spur, 75 feet above gulch, bears north and south.

Descend.

59.00 Same gulch, 10 links wide, 100 feet below top of spur, course northwest and continue descent.

60.00 Bed of ravine, 80 links wide, course northwest.

61.50 Wagon road, bears northwest and southeast.

Ascend.

76.25 Top of spur, 300 feet above gulch, bears north and south.

Descend.

81.52 West bank of gulch, 8 links wide, 100 feet below top of spur, course north and set a sandstone 20x16x10, 15 inches in the ground, for corner to Sections 17,18,19 and 20. Marked S.G.F.R. with 3 notches on south and 5 notches on east edges; dug pits 15x15x12 inches, in each section, $5\frac{1}{2}$ feet distant, and raised a mound of earth, 4 feet base, 2 feet high, west of corner.

Land, mountainous.

Resurvey of Subdivisions of T.4 N., R.13 W. S.E.M.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 50.00 chains.

North 89°42' west on a true line between Sections 18 and 19.

Ascend.

6.00 Top of spur, 175 feet above section corner, bears north 20° east and south 20° west.

Descend.

10.20 Gulch 6 links wide, 90 feet below top of spur, course north;
Ascend.

17.00 Top of ridge, 200 feet above gulch, bears north 20° west and south 20° east.

Descend.

27.00 Enter bed of gulch, 150 feet below top of ridge, course north 89°45' west.

31.70 Leave same, course northwest.

Ascend.

39.00 Top of spur, 200 feet above gulch, bears north and south.

Descend.

40.56 Set a sandstone 20x12x10 inches, 15 inches in the ground, for quarter section corner, marked S.G.F.R. on north face; dug pits 15x15x12 inches, east and west of stone, 3 feet distant and raised a mound of earth 1½ feet high, 3½ feet base north of corner.

45.25 Gulch, 8 links wide, 200 feet below top of spur, course northeast.
Ascend.

49.50 Top of spur 100 feet above gulch, bears northeast and southwest.
Descend.

Resurvey of Subdivisions of T.4 N., R.13 W. S.B.M.

- 53.00 Gulch 10 lks. wide, 175 feet below top of spur, course north 25° east.
Ascend.
- 54.75 Top of spur, 50 feet above gulch, bears north and south.
Descend.
- 58.00 Gulch, 20 links wide, 100 feet below top of spur, course north.
Ascend.
- 70.00 Top of ridge, 500 feet above gulch, bears north 10° east and south
10° west.
Descend.
- 79.40 The corner to Sections 13, 18, 19 and 24, on west boundary of township.
Land, mountainous.
Soil, third rate.
No timber.
Dense undergrowth of chaparral.
Mountainous land, 82.37 chains.

September 29, 1896.

September 30; at 7h. A.M., l.m.t., I set off 34°25' north on the
lat. arc; 3°05' south on the decl. arc; and determined a true
meridian with the solar at the corner to Sections 15, 16, 21 and 22,
previously described.

From the reestablished corner to Sections 15, 16, 21 and 22 I run
South 89°55' east on a random line between Sections 15 and 22.

- 40.98 To a point 25 links south of badly decayed stake, in stone mound.
I destroyed old corner and to remark same set a manzanita post,
3 feet long, 4 inches square, with marked stone 24 inches in the
ground, marked $\frac{1}{4}$ S on north face, and raised a stone mound, 1½ feet
high, 2 feet base north of corner.

Pits impracticable.

Also marked post S.G.F.R. on south face.

Resurvey of Subdivisions of T.4 N., R.13 W. S.B.M.

Thence

South $89^{\circ}44'$ west on a true line between Sections 15 and 22.
Descend.

2.98 Canon, 10 links wide, 50 feet below quarter section corner,
course north.

Ascend.

40.98 The corner to Sections 15, 16, 21 and 22.

From the quarter section corner, I continue south $89^{\circ}55'$ east.

40.42 To a point 51 links south of corner to Sections 14, 15, 22 and 23,
where I found a portion of an old stake lying on the ground,
near a small mound of stone, not being satisfied that this is
the correct position of the corner, I go to the witness corner
to Sections 10, 11, 14 and 15, 61 links west of true point for
corner, where I found a post set firmly in the ground, marked
and witnessed as described by the Surveyor General.

From the true point for corner, I run

South on a random line between Sections 14 and 15

40.00 To old quarter section corner, which is a post marked and wit-
nessed as described by the Surveyor General.

Thence I run

North on a true line between Sections 15 and 14.

Descend.

30.00 Enter canada bottom, 80 feet below quarter section corner,
course west.

39.00 Leave bottom of canada.

Ascend.

39.50 Middle of Southern Pacific Railroad track, bears east and west.

40.00 The corner to Sections 10, 11, 14 and 15.

From the quarter section corner, I continue south.

40.07 To old stone mound, before mentioned.

Resurvey of Subdivisions of T.4 N., R.13 W., S.B.M.

To remark corner I set a manzanita post, 3 feet long, 5 inches square, with marked stone 24 inches in the ground, marked

T. 4 N., S. 14 on northeast

R. 13 W. S. 23 on southeast

S.G.F.R. S. 22 on southwest and

S. 15 on northwest faces; with 2 notches on east and 3 notches on south edges; and rebuilt mound of stone, $1\frac{1}{2}$ feet high, 2 feet base, west of corner.

Pits impracticable.

Thence I run

North on a true line between Sections 14 and 15.

Descend.

40.07 The quarter section corner.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral.

Mountainous land, 80.07 chains.

From the reestablished corner to Sections 14, 15, 22 and 23, I run South $89^{\circ}21'$ west, on a true line between Sections 15 and 22.

Ascend.

3.40 Summit of ridge, 100 feet above section corner, bears north 10° west and south 10° east.

Descend.

12.40 Ravine 15 links wide, 150 feet below summit, course north 10° west.

Ascend.

12.90 Road, bears north 10° west and south 10° east.

22.40 Top of ridge, 225 feet above ravine, bears north 10° west and south 10° east.

Descend.

Resurvey of Subdivisions of T.4 N., R.13 W., S.B.M.

- 33.40 Ravine, 15 links wide, 200 feet below top of ridge, course north
Ascend.
- 37.90 Summit of ridge, 300 feet above ravine, bears north and south.
Descend.
- 40.42 The quarter section corner.
Land, mountainous.
Soil, third rate.
No timber.
Dense undergrowth of chaparral.
Mountainous land, 81.40 chains.
-

From the corner to Sections 14, 15, 22 and 23, I run north $89^{\circ}44'$
east on a random line between Sections 14 and 23.

- 40.00 After diligent search for old quarter section corner, failed to find
any trace of same, set temporary quarter section corner and continue.
North $89^{\circ}44'$ east.
- 80.80 To a point 5 links south of old stone mound, nearly destroyed,
which was probably the corner to Sections 13, 14, 23 and 24, to
fully establish the true position of this corner, I go to the
corner to Sections 11, 12, 13 and 14, which is a post set firmly
in the ground, marked and witnessed as described by the Surveyor
General.
Thence I run
South on a random line between Sections 13 and 14.
- 40.00 To old quarter section corner, which is a post, set firmly in the
ground, marked and witnessed as described by the Surveyor General.
Thence I run
North on a true line between Sections 13 and 14.
Descend over rolling mesa.
- 40.00 The corner to Sections 11, 12, 13, 14.

T. 4 N., R. 13 W., S. B. M.

From the quarter section corner I continue South on a random line between Sections 13 and 14.

- 40.20 To old mound, I set a wild cherry post, 3 feet long, 4 inches square, with marked stone 24 inches in the ground, to reestablish corner to Sections 13, 14, 23 and 24, marked

T. 4 N., S. 13 on northeast,

R. 13 W. S. 24 on southeast

S.G.F.R. S. 23 on southwest and

S.14 on northwest faces; with 1 notch on

east and 3 notches on south edges; and rebuild mound of stone, 1½ feet high 2 feet base, west of corner.

Pits impracticable.

Thence I run

North on a true line between Sections 13 and 14.

Over brushy spurs.

- 35.00 Leave spur, and descend over valley mesa.

- 40.20 The quarter section corner.

Land, mountainous and rolling.

Soil, fourth rate.

No timber.

Dense undergrowth of chaparral and manzanita, 80.20 chains.

Mountainous land, 35.20 chains.

From the reestablished corner to Sections 13,14,23 and 24, I run South 89°42' west on a true line between Sections 14 and 23.

Ascend.

- 9.50 Summit of ridge, 300 feet above section corner, bears northwest and southeast.

Descend.

- 40.40 Set a manzanita post, 3 feet long, 3 inches square, with marked stone 24 inches in the ground for quarter section marked S.G.F.R. on south face, ¼ S. on north face;

T. 4 N., R. 13 W., S. E. M.

and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base north of corner.

Pits impracticable.

46.80 Road bears north and south.

56.55 Road bears north and south.

58.80 Canon, 125 links wide, 1600 feet below top of ridge, course north.
Ascend.

78.30 Top of spur, 200 feet above canon, bears north and south.
Descend.

80.30 Wash, 60 feet below top of spur, course north.
Ascend.

80.80 The corner to Sections 14, 15, 22 and 23.

Land, mountainous.

Soil, third and fourth rate.

No timber.

Dense undergrowth of chaparral and manzanita.

Mountainous land, 80.80 chains.

From the corner to Sections 13, 14, 23 and 24, I run North $89^{\circ}43'$ east, on a random line between Sections 13 and 24.

40.00 After diligent search, failing to find any tract of quarter section corner, I set temporary quarter section corner and continue north $89^{\circ}43'$ east.

80.10 To a point 154 links south of corner to Sections 13, 18, 19 and 24, which is a fairly well preserved post, lying on the ground, with traces of earth mound and pits. To reestablish corner and to mark corner No. 41 on boundary of San Gabriel Forest Reservation, I set a square hollow iron post, filled with cement, etc., 3 feet long with sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches on the ground, marked

T. 4 N., R. 13 W., S. B. M.

T. 4 N., S. 18 on northeast,
S.G.F.R. 41, R. 12 W., S. 19 on southeast,
R. 13 W., S. 24 on southwest, and
S. 13 on northwest faces; dug pits 36x36x12

inches north and west of post, 4 feet distant, and raised a mound of earth, $1\frac{1}{2}$ feet high, 5 feet base around post.

Thence I run

South $88^{\circ}37'$ west on a true line between Sections 13 and 24.

Descend.

4.80 Stream of water, 10 links wide, 3 inches deep, course north.

Ascend.

11.55 Road from Ravenna to Mt. Gleason, bears north and south.

28.00 Dry wash, 20 links wide, 75 feet above stream, course north 30° east, and continue ascent.

40.05 Set a granite stone, $24 \times 10 \times 8$ ins. 18 in. in ground, for quarter section corner, marked S.G.F.R. on south face, $\frac{1}{4}$ on north face, and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base north of corner. Pits impracticable.

48.60 Edge of brushy mesa, bears north and south.

Descend.

64.60 Leave mesa, 75 feet above wash, bears north and south.

Descend.

66.30 stream of pure water, 3 links wide, 2 inches deep, 20 feet below mesa, course north.

Ascend.

80.12 The corner to Sections 13, 14, 23 and 24.

Land, mountainous.

Soil, third rate.

No timber.

Dense undergrowth of chaparral, 80.10 chains.

Mountainous land, 64.10 chains.

September 30, 1896.

East Boundary T. 4 N., R. 13 W., S. B. M.

Oct. 1st; at 7h. A.M., l.m.t. I set off $34^{\circ}25'$ north on the lat. arc; $3^{\circ}29'$ south on the decl. arc, and determine a true meridian with the solar, at the corner to Sections 13, 18, 19 and 24, previously described. From the corner to Sections 13, 18, 19 and 24, on east boundary of township, I run North on a random line between Sections 13 and 18.

40.03 To a point 84 links east of old quarter section corner, where I found a badly decayed post, with traces of earth mound and pits. I destroyed old corner and to remark same, set a manzanita post 4 feet long, 5 inches square, with marked stone, 24 inches in the ground, marked S. on west face; and raised a mound of stone $1\frac{1}{2}$ feet high, 2 feet base west of corner.

Pits impracticable.

Also marked post, S.G.F.R. on south face.

Thence

South $1^{\circ}12'$ east on a true line between Sections 13 and 18. Ascend.

5.53 Top of ridge 100 feet above quarter section corner, bears east and west.

Descend.

27.03 Wagon road bears east and west.

40.04 The corner to Sections 13, 18, 19 and 24.

From the quarter section corner I continue north.

39.93 To a point 108 links east of old corner to Sections 7, 12, 13 and 18, where I found the post rotted off at the ground, in a portion of an old mound; I destroyed old corner and to remark same, set a cedar post $3\frac{1}{2}$ feet long, 4 inches square, with marked stone, 24 inches in the ground, marked S.G.F.R.

T. 4 N., S. 7 on northeast

R. 12 W., S. 18 on southeast,

R. 13 W., S. 13 on southwest and

S. 12 on northwest faces; with 4 notches on

E. Boundary T.4 N., R.13 W., S. E. M.

south and 2 notches on north edges; and raised a mound of stone, covered with earth, $1\frac{1}{2}$ feet high, 2 feet base west of corner; from which bears

A cottonwood 12 inches dia. north $47\frac{1}{2}^{\circ}$ east, 92 links distant, marked T. 4 N., R. 12 W., S.G.F.R. S. 7 E.T.

No other tree within limits.

Thence I run

South $1^{\circ}33'$ east on a true line between Sections 13 and 18.

Descend.

0.36 Dry arroyo, 15 links wide, course southwest.

Ascend.

19.46 Top of spur, 160 feet above arroyo, bears east and west.

Descend.

24.60 Canon, 100 feet below top of spur, course west.

Ascend.

39.94 The quarter section corner.

Land, mountainous.

Soil, third rate.

Scattering cottonwood timber.

Undergrowth of manzanita.

Mountainous land, 79.96 chains.

From the corner to Sections 7, 12, 13 and 18, I run north on a random line between Sections 7 and 12.

40.05 To a point 40 links east of old quarter section corner which is a portion of an oak post, set firmly in the ground, in a small mound of stone. I destroyed old post and in its place set a cedar post, 3 feet long, 4 inches square, with marked stone 12 inches in the ground marked $\frac{1}{4}$ S. on west face; and rebuilt stone mound around post.

Pits impracticable.

Also marked post, S.G.F.R. on east face.

E. Boundary T. 4 N., R. 13 W., S. B. M.

Thence I run

South $0^{\circ}34'$ east on a true line between Sections 7 and 12.

Descend.

3.80 Ravine 10 links wide, 125 feet below quarter section corner, course west.

Ascend.

12.05 Top of spur 250 feet above ravine, bears east and west.

Descend.

40.05 The corner to Sections 7, 12, 13 and 18, 400 feet below top of spur. From the quarter section corner, I continue to north.

39.95 To a point 70 links east of old corner to Sections 1, 6, 7 and 12, where I found old earth mound, but no other trace of corner. I destroyed same and to remark corner, set a cedar post 3 feet long, 4 inches square, with marked stone 24 inches in the ground, marked S. G. F. R.

T. 4 N., S. 6 on northeast,

R. 12 W. S. 7 on southeast,

R. 13 W. S. 12 on southwest and

S. 1 on northwest faces; with 5 notches on south and 1 notch on north edges; and raised a mound of stone 2 feet high, $3\frac{1}{2}$ feet base west of corner.

Pits impracticable.

Thence I run

South $1^{\circ}00'$ east on a true line between Sections 7 and 12. Ascend.

10.00 Top of spur, 100 feet above section corner, bears east and west.

Descend.

21.50 Ravine 400 feet below top of spur, course west.

Ascend.

27.50 Top of spur, 200 feet above ravine, bears east and west.

Descend.

39.96 The quarter section corner.

Land, mountainous.

E. Boundary T. 4 N., R. 13 W., S.B.M.

Soil, third rate.

Timber of cedar and juniper and dense undergrowth of same.

Mountainous land, 80.00 chains.

From the corner to Sections 1, 6, 7 and 12, I run North on a random line between Sections 1 and 6.

40.10 To a point 15 links east of old quarter section corner, where I found a badly decayed post, in a small earth mound; no other trace of corner. To reestablish same I set a cedar post, 3 feet long, 4 inches, square with marked stone 24 inches in the ground, marked $\frac{1}{4}$ S. on west face; in place of old post, which I destroyed and raised a mound of stone $1\frac{1}{2}$ feet high 2 feet base west of corner. Pits impracticable.

Also marked post S.G.F.R. on east face.

Thence I run

South $0^{\circ}13'$ east on a true line between Sections 1 and 6.

Descend.

7.10 Wash 30 links wide, 100 feet below quarter section corner, course west and continue descent.

11.10 A house bears east, 3.00 chains distant.

22.10 Gulch 15 links wide, 300 feet below wash, course west.

Ascend.

40.10 The corner to Sections 1, 6, 7 and 12.

From the quarter section corner, I continue north.

39.98 To a point 40 links east of old corner to townships 4 and 5 north, ranges 12 and 13 west, which is badly decayed post, in an old stone mound, I destroyed same and to remark corner set a square, hollow iron post, filled with cement, 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground, (also for corner No. 42 on

E. Bdy. T. 4 N., R. 13 W., S. B. M.

boundary of San Gabriel Forest Reservation) marked

T. 5 N., S. 31 on northeast,

S.G.F.R. 42,

R. 12 W., S. 6 on southeast,

T. 4 N., S. 1 on southwest and

R. 13 W. S. 36 on northwest faces; dug pits

36x36x12 inches, south and east of post, 4 feet distant and
raised a mound of earth $1\frac{1}{2}$ feet high 5 feet base around post.

Thence I run

South $0^{\circ}34'$ east on a true line between Sections 1 and 6.

Descend.

0.58 Base of spur, bears east and west.

Ascend.

12.08 High, rocky bluff on top of ridge, 300 feet above township
corner bears east and west.

Descend.

39.98 The quarter section corner.

Land, mountainous.

Soil, third rate.

Scattering cedar timber.

Dense undergrowth of same and manzanita.

Mountainous land, 80.08 chains.

October 1, 1896.

N.B., T.4 N., R.12 W., S.B.M.

At the corner to townships 4 and 5 north, ranges 12 and 13 west, in Long. $118^{\circ}11'$ west, Lat. $34^{\circ}28'$ north at 6h.42m. P.M., I observe Polaris at eastern elongation in accordance with instructions in the manual and mark the line thus determined by a tack driven in a wooden plug set in the ground, 5 chains north of my station. October 2nd; at 7 A.M., I lay off the azimuth of Polaris $1^{\circ}31'$ to the west and mark the true meridian thus determined by cutting a mark on a stone set firmly in the ground, west of the point established last night. The magnetic bearing of said true meridian is north 15° west, which reduced by the table gives the mean magnetic declination $14^{\circ}58'$ east.

At 7 A.M., l.m.t. I set off $34^{\circ}28'$ north on the lat. arc; $3^{\circ}52'$ south on the decl. arc; and mark a true meridian with the solar at the following named corner, previously described.

From the corner to townships 4 and 5 north, ranges 12 and 13 west, I run

East on a random line between Sections 6 and 31.

40.10 To a point 4 links south of old quarter section corner where I found a badly decayed post, in an old earth mound; I destroyed old corner and to remark same, set a cedar post 4 feet long, 4 inches square, with marked stone, 24 inches in the ground, marked $\frac{1}{4}$ S. on north face; and raised a mound of stone, $1\frac{1}{2}$ feet high 2 feet base north of corner.

Pits impracticable.

Also marked post, _____. G.F.R. on south face.

Thence

South $89^{\circ}57'$ west on a true line between Sections 6 and 31.

Descend.

2.10 Base of flat spur, bears north 65° east and south 65° west and over rolling land, along north side of wagon road, bears east and west.

N. E. T. 4 N., R. 12 W., S. E. M.

- 15.60 A house bears south 5.00 chains distant.
- 40.10 The corner to townships 4 and 5 north, ranges 12 and 13 west.
From the quarter section corner I continue east.
- 40.40 To corner to Sections 5, 6, 31 and 32, where I found a portion of
an old earth mound, which I destroyed. To remark corner I set a
cedar post, $2\frac{1}{2}$ feet long, 4 inches square, with marked stone 24
inches in the ground, marked

T. 5 N. S. 32 on northeast,

R. 12 W. S.G.F.R. S. 5 on southeast,

T. 4 N., S. 6 on southwest and

S. 31 on northwest faces, with 1 notch on
west and 5 notches on east edges; and raised a mound of stone
covered with earth, $2\frac{1}{2}$ feet high, 4 feet base west of corner.
Thence I run

West on a true line between Sections 6 and 31.

Descend.

- 15.50 Road bears north and south.
- 32.75 A house bears south, 1.00 chains distant.
- 40.40 The quarter section corner.
Land, rolling and broken.
Soil, second rate.
Scattering cedar and juniper timber.
Dense undergrowth of juniper and sage, 80.50 chains.

From the corner to Sections 5, 6, 31 and 32, I run east on a
random line between Sections 5 and 32.

- 41.00 To a point 20 links north of old quarter section corner, which is
a badly decayed post, in an earth mound. I destroyed old corner
and in its place set a cedar post 3 feet long, 3 inches square,
with marked stone 12 inches in the ground, marked $\frac{1}{4}$ S on north face;

N.B. T.4 N., R.12 W., S. B. M.

and raised a stone mound, $1\frac{1}{2}$ feet high, 3 feet base north of corner.

Pits impracticable.

Also marked post S.O.F.R. on south face.

Thence I run

North $89^{\circ}43'$ west on a true line between Sections 5 and 32.

Descend.

8.50 Enter sandy creek bottom, 100 feet below quarter section corner, course north.

15.00 Leave creek bottom, at base of spur.

Ascend.

22.00 Top of spur, 250 feet above creek, bears north and south.

Descend.

41.00 The corner to Sections 5, 6, 31 and 32.

From the quarter section corner I continue east.

41.25 To a point 30 links north of old corner to Sections 4, 5, 32 and 33, where I found a fairly well preserved post in an old stone mound, I destroyed old post and in its place, set a cedar post, 3 feet long, 4 inches square, with marked stone 24 inches in the ground, marked

T. 5 N., S. 33 on northeast, S.O.F.R.

R. 12 W. S. 4 on southeast,

T. 4 N., S. 5 on southwest and

S. 32 on northwest faces, with 4 notches on east and 2 notches on west edges and rebuilt stone mound around same.

Pits impracticable.

Thence I run

North $89^{\circ}34'$ west on a true line between Sections 5 and 32.

Descend.

41.25 The quarter section corner.

Land, mountainous.

N. E. T. 4 N., R. 12 W., S. E. M.

Soil, third rate.

Scattering cedar timber.

Dense undergrowth of same and manzanita.

Mountainous land, ⁸52.25 chains.

From the corner to Sections 4, 5, 32 and 33, I run east on a random line between Sections 4 and 33.

40.00 After diligent search, failing to find any trace of old quarter section corner, I set temporary quarter section corner and continue east.

79.92 To a point 13 links north of old corner to Sections 3, 4, 33 and 34, where I found a sandstone 36x24x18 inches, lying on the ground, marked as described by the Surveyor General.

To remark corner and to establish corner No. 43, on boundary of San Gabriel Forest Reservation,

I set a square, hollow iron post, filled with cement, etc., 3 feet long, the sides 4 inches wide at the top, increasing to 12 inches wide at the bottom, 12 inches in the ground, marked

T. 5 N., S. 34 on northeast,

S.G.F.R. 43 R.12 W., S. 3 on southeast,

T. 4 N., S. 4 on southwest and

S. 33 on northwest faces; dug pits 36x36x12 inches north and south of post, 4 feet distant, and raised an earth mound, 1½ feet high, 5 feet base, around post.

Thence I run

North 89°54' west on a true line between Sections 4 and 33.

Descend.

11.17 Dry wash, 30 links wide, course north 40° west, continue descent.

N.E. T. 4 N., R. 12 W., S.B.M.

- 19.72 Dry wash, 40 links wide, 250 feet below section corner, course north.
Ascend.
- 39.96 Set a cedar post, 3 feet long, 4 inches square, with marked stone 12 inches in the ground for quarter section corner, marked $\frac{1}{4}$ S on north face, and raised a mound of stone $1\frac{1}{2}$ feet base, 2 feet high, north of corner.
Pits impracticable.
Also marked post S.G.F.R. on south.
- 44.42 Top of spur, 300 feet above wash, bears north and south.
Descend.
- 79.92 The corner to Sections 4, 5, 32 and 33.
Land, mountainous.
Soil, third rate.
Scattering cedar timber.
Undergrowth of same.
Mountainous land, 79.92 chains.
-

From the corner to Sections 3, 4, 33 and 34, I run east on a random line between Sections 3 and 34.

- 40.10 To a point 5 links south of old quarter section corner, which is a badly decayed post, in a stone mound.
I destroyed old post and in its place set a juniper post, $2\frac{1}{2}$ feet long, 3 inches square, with marked stone, 12 inches in the ground, marked $\frac{1}{4}$ S. on north face; and rebuilt stone mound around same.
Pits impracticable.
Also marked post S.G.F.R. on south face.
Thence I run
South $89^{\circ}56'$ west on a true line between Sections 3 and 34.
Descend.

N.B. T. 4 N., R. 12 W., S. B. M.

- 1.60 Base of descent and ascend.
- 16.10 Top of ridge, 250 feet above base of descent, bears north-east and southwest and along same.
- 23.10 Leave top of ridge, bears northeast and southwest.
Descend.
- 40.10 The corner to Sections 3, 4, 33 and 34.
From the quarter section corner, I continue east.
- 40.22 To a point 35 links north of corner to Sections 2, 3, 34 and 35, which is a badly decayed post, in old stone mound. I destroyed same and to remark corner set a juniper post, 3 feet long, 4 inches square, with marked stone 24 inches in the ground, marked
- T. 5 N., S. 35 on northeast, S.G.F.R.
R. 12 W. S. 2 on southeast,
T. 4 N., S. 3 on southwest and
S. 34 on northwest faces; with 2 notches
on east and 4 notches on west edges; and raised a mound of
stone $1\frac{1}{2}$ feet high, 2 feet base west of corner.
Fits impracticable.
Thence I run
North $89^{\circ}30'$ west on a true line between Sections 3 and 34.
Ascend over brushy, flat spur.
- 39-64 A barn and orchard, 1.00 chains, south of line.
- 39.82 Top of flat spur, 200 feet above section corner, bears north and south.
Descend.
- 40.22 The quarter section corner.
Land, mountainous.
Soil, third rate.
Scattering cedar and juniper timber.
Undergrowth of same.

N.B. T. 4 N., R. 12 W., S. B. M.

Mountainous land, 80.32 chains.

From the corner to Sections 2, 3, 34 and 35, I run East on a random line between Sections 2 and 35.

40.00 Made diligent search for old quarter section corner, but failed to find any trace of same; set temporary quarter section corner and continue east.

80.25 To a point 10 links north of corner to Sections 1, 2, 35, 36, where I found a portion of an old stone md., but no other trace of corner. To remark corner I set a cedar post, 3 feet long, 4 inches square, with marked stone, 24 inches in the ground marked

T. 5 N., S. 36 on northeast, S.G.F.R.

R. 12 W., S. 1 on southeast

T. 4 N., S. 2 on southwest and

S. 35 on northwest faces, with 5 notches on west and 1 notch on east edges; and raised a mound of stone $1\frac{1}{2}$ feet high, 2 feet base, west of corner.

Pits impracticable.

Thence I run

North $89^{\circ}56'$ west, on a true line between Sections 2 and 35.

Ascend south slope of ridge.

34.25 Top of ridge 500 feet above section corner, bears north 20° east and south 20° west.

Descend.

40.12 $\frac{1}{2}$ Set a cedar post 3 feet long, 4 inches square, with marked stone 24 inches in the ground, for quarter section corner, marked S.G.F.R. on south face; $\frac{1}{4}$ S. on north face, and raised a mound of stone, $1\frac{1}{2}$ feet high, 2 feet base north of corner.

Pits impracticable.

Corner set in low sag, 350 feet below top of ridge.

N.B. T. 4 N., R. 12 W., S.B.M.

bears north and south.

Ascend.

57.75 Top of spur, 100 feet above sag, bears northwest and southeast.

Descend.

67.75 Base of spur, 350 below top of spur, bears northwest and southeast.

Ascend.

77.65 Road from Kentucky Spring to Vincent and Acton, bears north and south

80.25 The corner to Sections 2, 3, 34 and 35.

Land mountainous.

Soil, fourth rate, rocky.

No timber.

Undergrowth of juniper and cedar and yucca.

Mountainous land, 80.25 chains.

From the corner to Sections 1, 2, 35 and 36, I run east on a random line between Sections 1 and 36.

40.20 To a point 15 links south of slight traces of old quarter section corner, which I destroy.

To remark corner I set a cedar post, $3\frac{1}{2}$ feet long, 4 inches square, with marked stone 12 inches in the ground, marked $\frac{1}{4}$ S. on north face, and raised a mound of stone, $1\frac{1}{2}$ feet high, $3\frac{1}{2}$ feet base north of corner.

Pits impracticable.

Also marked post, S.G.F.R. on south face.

Thence

South $89^{\circ}47'$ west on a true line between Sections 1 and 36.

Descend.

7.20 Dry gulch 15 links wide, 75 feet below quarter section.

N.E. T.4 N. R.12 W., S. B. M.

corner, course north.

Ascend.

26.20 Top of ridge, 200 feet above gulch, bears northwest and southeast.

Descend.

40.20 The corner to Sections 1, 2, 35 and 36.

From the quarter section corner, I continue east.

40.00 I make diligent search for old corner to Townships 4 and 5 north, Ranges 11 and 12 west, but am unable to find any tract of same, I therefore set temporary corner.

October 2, 1896.

October 3rd, at 7 A.M. l.m.t. I set off $34^{\circ}28'$ north on the lat. arc; $4^{\circ}15'$ S. on the decl. arc, and mark a true meridian with the solar at the temporary corner to Townships 4 and 5 north, Ranges 11 and 12 West.

Boundary of San Gabriel Forest Reservation

along E. Boundary, T.5 N. R.12 W., S.B.M.

From the temporary corner to Townships 4 and 5 north, Ranges 11 and 12 west, I run

North $0^{\circ}05'$ east on a random line along boundary; setting temporary corners at every 40 chains, as I have been informed by Deputy Surveyor Ensign, who has a contract in this immediate vicinity, that no trace of corners along this boundary can be found.

At 241.48 chains I arrive at a point 35 links east of corner to Sections 13 and 24, which is a post, set firmly in the ground, marked and witnessed as described by the Surveyor General.

Thence I run

Boundary Line of San Gabriel Forest Reservation
along E. Boundary T. 5 N., R. 12 W., S.B.M.

South on a true line on east boundary of Section 24.

Descend.

10.75 Canon, 20 links wide, 150 feet below section corner, course northeast.

Ascend.

17.00 Top of rocky point, 90 feet above canon, bears east and west and continue ascent.

40.24½ Set a juniper post, 3 feet long, 4 inches square, with marked stone 24 inches in the ground, for quarter section corner, marked ¼ S on west face, and raised a stone mound 1½ feet high, 2 ft. base west of corner.

Pits impracticable.

40.75 Top of rocky ridge, 450 feet above point, bears east and west.

Descend.

71.00 Canon, 20 links wide, 200 feet below top of ridge, course northeast.

Ascend.

79.00 Top of spur, 300 feet above canon, bears east and west.

Descend.

80.49 Set a sandstone 30x11x8 inches, 22 inches in the ground, for corner to Sections 24 and 25, marked with 4 notches on north and 2 notches on south edges and raised a mound of stone, 1½ feet high, 2 feet base, west of corner.

Pits impracticable.

Land, mountainous.

Soil, fourth rate, stony.

Scattering timber of cedar.

Undergrowth of same and yucca.

Mountainous land, 80.49 chains.

Boundary of San Gabriel Forest Reservation
along E. Boundary T.5 N., R.12 W. S.B.M.

South on a true line on east boundary of Section 25.

Descend.

10.00 Low sag, 75 feet below top of last spur, bears east and west.

Ascend.

29.00 Top of ridge, 200 feet above sag, bears northeast and southwest.

Descend.

34.00 Gulch, 300 feet below top of ridge, 10 links wide, course southwest.

Ascend.

40.24½ Set a juniper post, 3 feet long, 4 inches square, with marked stone, 24 inches in the ground for quarter section corner, marked S.G.F.R. on east face, $\frac{1}{4}$ S on west face, and raised a mound of stone 1½ feet high, 2 feet base, west of corner.

Pits impracticable.

71.25 Summit of brushy mountain, 500 feet above gulch, bears east and west.

Descend.

80.49 Set a juniper post, 3 feet long, 4 inches square, with marked stone 24 inches in the ground, for corner to Sections 25 and 36, marked

T. 5 N., S. 25 on northwest,

S.G.F.R. on southeast and

R. 12 W., S. 36 on southwest faces,

with 5 notches on north and 1 notch on south edges; and raised a mound of stone 1½ feet base, 2 feet high west of corner.

Pits impracticable.

Land, mountainous.

Soil, fourth rate, rocky.

Scattering timber of juniper.

Boundary Line of San Gabriel Forest Reservation
along E. B. T. 5 N., R. 12 W., S. B. M.

Dense undergrowth of same and yucca.

Mountainous land, 80.49 chains.

South on a true line on east boundary Section 36.

Descend.

17.00 Enter canon, 300 feet below section corner, course south 80° west.

24.00 Leave canon and ascend.

31.50 Top of spur 100 feet above canon, bears east and west.

Descend.

35.80 Enter canon, 100 feet below top of spur, course west.

38.50 Road, bears east and west.

40.25 Set juniper post, 3 feet long, 4 inches square, with marked stone
24 inches in the ground, for quarter section corner, marked $\frac{1}{4}$ S.
on west face; and raised a mound of stone $1\frac{1}{2}$ feet high, 3 feet
base west of corner.

Pits impracticable.

Post also marked S.G.F.R. on east face.

43.00 Leave canon and ascend.

60.00 Summit of ridge, 400 feet above canon, bears east and west.

Descend.

76.00 Canon, 30 links wide, 300 feet below top of ridge, course southwest.

Ascend.

80.50 To temporary corner to townships 4 and 5 north, ranges 11 and 12
west, which I remark and also establish as corner No. 44 on bound-
ary of San Gabriel Forest Reservation, by setting a square, hollow
iron post, filled with cement, etc., 3 feet long, the side 4 inches
wide at the top, increasing to 12 inches wide at the bottom, 12
inches in the ground, marked

E. Bdy. T. 5 N., R. 12 W., S. B. M.

T. 4 N. S. 6 on northeast,
S.G.F.R. 44, R. 11 W. on southeast,
R. 12 W., S. 1 on southwest, and
T. 5 N., S. 36 on northwest faces; dug pits 36x36x12 inches,
north and west of post, 4 feet distant and raised a mound of
earth, 1½ feet high, 5 feet base around post.
Land, mountainous.
Soil, fourth rate, rocky
Scattering cedar timber.
Dense undergrowth of sage and yucca.
Mountainous land, 80.50 chains.

Oct. 3, 1896.

Boundary line of San Gabriel Forest Reservation
along N. Boundary T. 4 N., R. 12 W., S. B. M.

From the corner to townships 4 and 5 north, ranges 11 and 12
west, I run
West on a true line between Sections 36 and 1.
Through rough canon.
11.50 Leave canon 100 feet below township corner, course south 80° west.
Ascend.
39.80 To quarter section corner, on top of brushy spur, 200 feet above
canon, bears north and south.
Land, mountainous.
Soil, fourth rate, rocky.
Scattering cedar timber.
Dense undergrowth of cedar and juniper.
Mountainous land, 80.00 chains.

Oct. 3, 1896.

Oct. 5th, at 5h.0m.A.M., l.m.t. I set off 34°30' north on lat
arc; 5°04' south on decl. arc; and mark a true

meridian with the solar at the corner to Sections 13, 18, 19
and 24, on the east boundary T. 5 N., R. 11 W.
