

SURVEY OF
ANGELUS NATIONAL FOREST BOUNDARY
IN
T. 1 N., R. 8, 9, 10, 11 W.
AND
T. 2 N., R. 12, 13, 14 W.

Copied from notes furnished by the U. S.
Forest Reserve Office, Los Angeles, Calif.

R. 14 W.	R. 13 W.	R. 12 W.	R. 11 W.	R. 10 W.	R. 9 W.	R. 8 W.
T. 3 N.						
T. 2 N.						
T. 1 N.						

41.53 Set a granite stone 20 x 10 x 8 ins., 15 ins. in the ground for quarter section corner, marked $\frac{1}{4}$ S Q F R on north face, and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, west of corner. Pits impracticable.

81.53 The corner to sections 7, 8, 17 and 18.
Land mountainous. Soil third rate. Dense undergrowth of chaparral and buckthorn. Mountainous land, 81.53 obs.

August 29, 1896.

August 31st. at 7h. Om. A.M., l.m.t., I set off $34^{\circ} 11'$ north on the lat. arc, $8^{\circ} 22'$ north on the decl. arc; and determine a true meridian with the solar at the corner to sections 13, 18, 19 and 24, range line between T. 1 N., Rs. 7 and 8 W., previously described.

From the corner to secs. 13, 18, 19 and 24, on range line bet. Tps. 1 N., Rs. 7 and 8 W., previously described, I run North $89^{\circ} 48'$ west on a random line bet. secs. 13 and 24.

40.03 To a point, 5 lks. north of quarter section corner, which is a sandstone 5 x 5 x 4 inches above ground, the marks nearly obliterated and the stone mound destroyed. I remark stone $\frac{1}{4}$ S Q F R on north face, and rebuild stone mound, $1\frac{1}{2}$ ft. high, 2 ft. base, thence I run

South $89^{\circ} 53'$ east on a true line bet. sections 13 and 24.
Ascend.

14.53 Top of ridge, 300 ft. above quarter section corner, bears north and south. Descend.

28.98 Gulch, 10 lks. wide, 350 ft. below top of ridge, course south.
Ascend.

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

40.03 The corner to sections 13, 18, 19 and 24, from the quarter section corner, I continue North $89^{\circ} 48'$ W.

40.07 To a point, 5 lks. north of corner to sections 13, 14, 23 and 24, which is a limestone, 16 x 10 x 5 ins., above the

ground, marked as described by the Surveyor General, with pits, which I redug, 18 x 18 x 12 ins., 5½ ft. dist. in each section and an earth mound, which I rebuilt, 4 ft. base, 2 ft. high, I mark stone S G F R on north face; thence South 89° 52' east on a true line between sections 13 and 24. Descend.

- 9.10 Enter San Antonio Canon, 150 ft. below sec. cor., course S.
- 14.60 San Antonio Creek, 20 lks. wide, 400 ft. below section cor. course south.
- 23.60 Road, bears north and south.
- 25.10 Enter Kincaid's orchard, bears north and south.
- 26.10 Kincaid's house, bears north 2.00 chs. dist.
- 31.10 Leave same orchard, bears north and south.
- 35.60 Leave San Antonio Canon, bears north and south and ascend steep ridge.
- 40.07 The quarter section corner.
- Land mountainous. Soil third rate. Dense undergrowth of Chaparral and sagebrush, 53.50 chs. Mountainous land, 80.10 chs.

From the corner to sections 13, 14, 23 and 24, I run north 89° 46' west on a random line bet. sections 14 and 23.

- 40.00 After diligent search, failing to find any trace of quarter section corner, I set temporary quarter section corner and continue north 89° 46' west.
- 79.96 To a point 2 lks. north of corner to sections 14, 15, 22 and 23, which is a sandstone, 5 x 9 x 11 ins. above the ground, the marks nearly obliterated and the pits and mound in bad condition. I remarked stone, with 4 notches on south and 2 notches on east edges; redug pits 18 x 18 x 12 ins. in each section, 5½ ft. distant, and rebuilt earth mound 2 ft. high, 5 ft. base alongside. I also marked stone S G F R on north face, thence I run South 89° 48' E. on a true line between sections 14 and 23.

Ascend.

- 29.96 Top of spur, 500 ft. above section corner, bears north 20° west and south 20° east and descend.
- The true point for quarter section corner falling on nearly perpendicular wash, not suitable place to mark, at
- 35.76 Which is 4.22 chains north 89° 48' west from true point, I set a granite stone, 20 x 10 x 3 ins., 15 ins. in the ground for witness corner to quarter section corner, marked W C $\frac{1}{4}$ S G F R on north face; and raised a mound of stone, 2 ft. base, 1½ ft. high, north of corner. Pits impracticable.
- 76.96 Ravine, 10 lks. wide, 600 feet below top of spur, course south 10° east. Ascend.
- 79.96 The corner to sections 13, 14, 23 and 24 on top of spur, 100 feet above ravine, bears north and south.
- Land mountainous. Soil third rate. Dense undergrowth of chaparral and buckthorn. Mountainous land 79.96 chs.
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- From the corner to sections 14, 15, 22 and 23, I run North 89° 46' west on a random line between sections 15 and 22
- 40.21 To a point, 12 lks. north of quarter section corner, which is a sandstone 5 x 8 x 10 ins., above the ground, marked and witnessed as described by the Surveyor General. I further marked stone S G F R on north face: Thence I run South 89° 56' east on a true line between sections 15 and 22.
- Ascend.
- 7.15 Top of spur, 200 ft. above quarter section corner, bears north 10° east and south 10° west. Descend.
- 35.71 Ravine, 10 lks. wide, 350 feet below top of spur, course south 10° west. Ascend.
- 40.21 The corner to sections 14, 15, 22 and 23.
- From the quarter section corner, I continue north 89° 46' west.
- 39.99 To a point 10 lks. north of corner to sections 15, 16, 21 and 22 which is a granite stone, 5 x 7 x 11 ins., above the

ground, the marks nearly gone and the mound partly destroyed.
I remark stone, with 3 notches south and east edges; S G F R
on north face and rebuilt stone mound, 2 ft. base, $1\frac{1}{2}$ ft. high.
Owing to the mountainous character of the land ^{and} the great
weight of the iron post, I find it impossible to set corner
No. 9 on boundary of San Gabriel Forest Reservation, at this
point. I run
South $89^{\circ} 45'$ west, 40.00 chains and set a square, hollow, iron
post, filled with cement 3 ft. long, the sides, 4 ins. wide
at the top, increasing to 12 ins. wide, at the bottom, 12 ins.
in the ground, marked T 1 N S 15 on northeast,

R 8 W. S 22 on southeast,

S 21 on southwest, and

S G F R 9 S 16 on northwest faces; dug
pits $36 \times 36 \times 12$ ins., north and south of post 4 ft. dist.
and raised a mound of earth, 1 ft. high, 5 ft. base around post,
for witness corner to corner No. 9 on Reservation boundary,
alongside which I set a sycamore post, 3 ft. long, 3 ins.
square, 12 ins. in the ground, marked W C 40.00 chs. for further
mark of this witness corner.

From the corner to sections 15, 16, 21 and 22, I run
South $89^{\circ} 55'$ east on a true line between sections 15 and 22.
Descend.

7.20 Ravine, 10 links wide, 250 feet below section corner, course
south 5° east. Ascend.

39.99 The quarter section corner.

Land mountainous. Soil, third rate. Dense undergrowth of
chaparral and buckthorn. Mountainous land, 80.20 chs.

August 31, 1896.

September 1; at 7h. 00m. A.M., l.m.t., I set off $34^{\circ} 10'$ north
on the lat. arc; $8^{\circ} 00'$ north on the decl. arc; and determine
a true meridian with the solar at the corner to sections 15,
16, 21 and 22, previously described. From the corner to secs.

- 15, 16, 21 and 22, I run
 South $89^{\circ} 48'$ west on a random line between sections 16 and 21.
- 40.00 To a point, 5 lks. north of quarter section corner, which is
 a sandstone $5 \times 8 \times 11$ ins., above the ground the marks nearly
 gone and the mound partly destroyed. I remarked same, S G F R
 $\frac{1}{4}$ on north face, and rebuilt mound of stone, $1\frac{1}{2}$ feet high,
 2 feet base. This point is also marked by witness corner No. 9
 on boundary of San Gabriel Forest Reservation. Thence I run
 North $89^{\circ} 44'$ east, on a true line between sections 16 and 21.
 Descend.
- 25.00 Ravine, 5 lks. wide, 300 feet below quarter section corner,
 course south. Ascend.
- 38.00 Top of spur, 350 feet above ravine, bears north and south.
 Descend.
- 40.00 The corner to sections 15, 16, 21 and 22.
 From the quarter section corner, I continue south $89^{\circ} 48'$ west.
- 40.10 To old corner to sections 16, 17, 20 and 21, where I found an
 old stone mound, but no other trace of corner. I destroy
 same and to re-establish corner set a granite stone, 21×14
 $\times 7$ ins., 16 ins. in the ground, marked with 3 notches on south
 and 4 notches on east edges, and raised a mound of stone, 2 ft.
 base, $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable.
 Also marked stone, S G F R on north face, thence
 North $89^{\circ} 48'$ east on a true line, between sections 16 and 21.
 Descend.
- 32.10 Ravine, 5 lks. wide, 35 feet below section corner, course
 south 5° east. Ascend.
- 40.10 To quarter section corner on top of spur, 400 feet above ravine,
 bears north 60° east, and south 60° west.
 Land mountainous. Soil third rate. Dense undergrowth of
 chaparral. Mountainous land, 80.10 chains.
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- From the corner to sections 16, 17, 20, 21, I run
 South $89^{\circ} 43'$ west on a random line between sections 17 and 20.
- 40.01 To a point 2 links north of quarter section corner, which is
 a sandstone $5 \times 7 \times 11$ ins. in the ground, the marks nearly
 obliterated and the mound partly destroyed. I remark stone,
 S G F R $\frac{1}{2}$ on north face; and rebuild mound, $1\frac{1}{2}$ ft. high, 2 ft.
 base, alongside. Pits impracticable. Thence I run
 North $89^{\circ} 41'$ east on a true line between sections 17 and 20.
 Descend over rough, broken slope.
- 40.01 The corner to sections 16, 17, 20 and 21.
 From the quarter section corner, I continue south $89^{\circ} 43'$ west.
- 40.08 To a point 23 links south of corner to sections 17, 18, 19
 and 20, which is a limestone, $5 \times 8 \times 11$ ins., above the ground,
 which I remarked with 3 notches on south and 5 notches on east
 edges and as the stone mound was partly destroyed. I rebuild
 same, 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable.
 I mark stone S G F R on north face, Thence
 South $89^{\circ} 57'$ east on a true line between sections 17 and 20.
 Descend.
- 17.09 Ravine, 17 lks. wide, 200 feet below section corner, course
 south 10° east. Ascend.
- 25.09 Top of ridge, 300 feet above ravine, bears north and south.
 Descend.
- 40.08 The quarter section corner.
 Land mountainous. Soil third rate. Dense undergrowth of chap-
 arral. Mountainous land, 80.09 chains.

September 1, 1896.

 September 2, 1896: at 7h. 00m., A.M., l.m.t., I set off $34^{\circ} 10'$
 north, on the lat. arc, $7^{\circ} 38'$ north on the decl. arc; and deter-
 mine a true meridian with the solar at the corner to sections
 17, 18, 19 and 20, previously described,
 From the corner to sections 17, 18, 19 and 20, I run
 North $89^{\circ} 53'$ west on a random line between sections 18 and 19.

- 40.05 To a point 15 lks. north of quarter section corner, which is a granite stone, 6 x 10 x 11 ins., above the ground, marked with $\frac{1}{4}$ on north face, and with a stone mound, in bad condition, alongside. I rebuild mound, $1\frac{1}{2}$ ft. high, 2 ft. base, north of corner. Pits impracticable. I also mark stone S G F R on north face, thence I run North $89^{\circ} 54'$ east on a true line between sections 18 and 19. Descend.
- 7.05 Head of ravine, 100 feet below quarter section, course north 10° west. Ascend.
- 20.78 Top of ridge, bears north 40° east and south 40° west, 500 ft. above ravine and along same.
- 29.05 Commence descent from top of ridge.
- 40.05 The corner to sections 17, 18, 19 and 20.
From the quarter section corner I continue north $89^{\circ} 53'$ west.
- 40.48 To old sycamore stump, which marks the corner to sections 13, 18, 19 and 24 on range line, between Tps. 1 north, Rs. 8 and 9 west, the marks being almost obliterated and stump badly decayed, I destroy same and re-establish corner by setting a sandstone 21 x 14 x 9 ins. 15 ins. in the ground, marked with 3 notches on north and south edges and S G F R on north face; from which bears
- A live oak 10 ins. dia. north $63\frac{1}{4}^{\circ}$ east, 53 lks. dist., marked T 1 N R 8 W S 18 S G F R B T
- A live oak 14 ins. dia. south $85\frac{1}{2}^{\circ}$ west, 52 lks. dist., marked T 1 N R 9 W S 24 B T
- A live oak 8 ins. dia. north 38° west, 53 lks. dist., marked T 1 N R 9 W S 13 S G F R B T
- No other tree within limits; raised a stone mound, 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable. This being an unsuitable place to set iron post, No. 10 I run North $89^{\circ} 53'$ west on a true line between sections 18 and 19. Ascend.
- 6.66 Road, to San Demas Canon, bears north and south.
- 6.70 Set a square, hollow, iron post, filled with cement, 3 ft.

filled with cement, 3 ft. long, the sides 4 ins. wide at the top, increasing to 12 in. wide at the bottom, 12 ins. in the ground for witness corner to corner No. 10 on boundary of San Gabriel Forest Reservation, marked

T 1 N S 18 on northeast,

R 8 W S 19 on southeast,

R 9 W S 24 on southwest and

S G F R 10 S 13 on northwest face; dug pits 36 x 36 x 12 ins. north and south of post, 4 ft. dist. and raised a mound of earth, 1½ ft. high, 5 ft. base around post; from which bears

A sycamore 8 ins. dia. north 19 3/4° east, 61 lks. dist., marked W C S G F R 10 B T

An alder, 12 ins. dia. south 24° west, 55 lks. dist., marked W C T 1 N R 9 W S 24 B T

Set a sycamore post, 3 ft. long, 3 ins. square, 12 ins. in the ground, along side iron post, No. 10 marked W C 6.70 for further mark of this witness corner.

14.53 Top of ridge, 500 feet above section corner, bears north and south. Descend.

40.48 The quarter section corner.

Land mountainous. Soil third rate. Scattering growth of alder, sycamore and oak timber. Dense undergrowth of chaparral.

Mountainous land, 80.53 chains.

From the corner to sections 13, 18, 19 and 24, on range line between Tps. 1 N., Rs. 8 and 9 W., I run North 89° 46' west on a random line bet. secs. 13 and 24.

40.00 After diligent search, failing to find any trace of quarter section corner, I set temporary quarter section corner and continue north 89° 46' west.

80.42 To a point 2 lks. south of corner to sections 13, 14, 23 and 24, which is a granite stone, 5 x 8 x 11 ins., above the ground, the marks nearly obliterated and the mound partly destroyed. I remarked stone, with 1 notch on east and 3 notches

on south edges, and S G F R on north face; and rebuilt stone mound, $1\frac{1}{2}$ ft. high, 2 feet base west of corner. Pits impracticable. From which bears

A live oak 18 ins. dia. north 84° east 84 lks. dist., which I marked T 1 N R 9 W S 13 S G F R B T

No other trees within limits. Thence I run

South $89^{\circ} 45'$ east on a true line between sections 13 and 24. Descend.

2.43 Heavy timbered canon, 30 lks. wide, 150 feet below section corner, course southeast. Ascend.

30.09 Top of ridge, 400 ft. above canon, bears north and south. Descend.

40.21 Set a granite stone $20 \times 8 \times 4$ ins., 15 ins. in the ground for quarter section corner, marked S G F R $\frac{1}{4}$ on north face, and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, north of corner, pits impracticable.

73.82 Wagon road, bears north and south.

75.20 San Dimas Creek, 25 lks. wide, course south 500 ft. below top of ridge. Ascend.

80.42 The corner to sections 13, 18, 19 and 24.

Land mountainous. Soil third and fourth rate. Heavy timber of sycamore, oak and alder in canon. Dense undergrowth of chaparral and scrub oak. Mountainous land, 80.42 chs.

From the corner to sections 13, 14, 23 and 24, I run North $89^{\circ} 39'$ west on a random line bet. secs. 14 and 23. After diligent search being unable to find the quarter section corner between sections 14 and 23, the corner to sections 14, 15, 22 and 23, or the quarter section corner between sections 15 and 22, I return to corner to sections 13, 14, 23 and 24 and run North $89^{\circ} 39'$ west, setting temporary corners at every 40.00 chains at 160.60 arrive at a point 14 lks. north of cor. to sections 15, 16, 21 and 22, which is a granite stone, $5 \times 6 \times 8$ ins., above the ground, marked and witnessed as described

by the Surveyor General, the stone mound being partly destroyed I rebuild same, $1\frac{1}{2}$ ft. high, 2 ft. base west of corner and mark stone, S G F R on north face, owing to the rough character of the land, I find it impossible to set iron post, at this point.

September 2, 1896.

Thence South $89^{\circ} 42'$ east on a true line between sections 15 and 22. Descend.

- 8.93 Set a square, hollow, iron post, filled with cement, etc., 3 ft. long, the sides 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked T 1 N S 15 on northeast, R 9 W S 22 on southeast, S 21 on southeast and S G F R 11 S 16 on northwest faces; for witness corner to corner No. 11 on boundary of San Gabriel Forest Reservation. Dug pits $36 \times 36 \times 12$ ins., north and south of post, 4 ft. dist.; and raised a mound of earth, $1\frac{1}{2}$ ft. high, 5 ft. base around post, alongside which I set a granite rock $20 \times 16 \times 11$ ins., 15 ins. in the ground, marked W C 8.93 chs. to further designate witness corner.
- 13.50 Road, bears north 25° east and south 25° west.
- ? .75 Dalton Canon, 150 ft. below section corner, course south 25° west. Ascend.
- 40.22 Set a granite stone $18 \times 14 \times 6$ ins., 12 ins. in the ground for quarter section corner, marked S G F R $\frac{1}{4}$ on north face, and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, north of corner. Pits impracticable.
- 64.00 Enter pine timber, bears north and south.
- 72.00 Leave pine timber, bears north and south.
- 80.41 Set a sandstone $24 \times 18 \times 9$ ins., 18 ins. in the ground for corner to sections 14, 15, 22 and 23, marked S G F R on north face, 2 notches on east and 3 notches on south edges, and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base west of cor.

Pits impracticable. Corner set 500 feet above Dalton Canon.
Land mountainous. Soil third rate. Heavy pine timber, 8.00 chs.
Dense undergrowth of chaparral. Mountainous land, 80.30 chs.

South 89° 42' east on a true line bet. sections 14 and 23.
Ascend.

- 5.84 Top of ridge, 150 ft. above section corner, bears north and south. Descend.
- 40.09 Set a sandstone 18 x 12 x 6 ins., 12 ins. in the ground, for quarter section corner, marked S G F R $\frac{1}{4}$ on north face; and raised a stone mound, 1½ ft. high, 2 ft. base, north of cor. Pits impracticable.
- 43.00 Ravine, 5 lks. wide, 250 feet below top of ridge, course south 20° east. Ascend.
- 60.09 Top of spur, 200 feet above ravine, bears north 45° west and south 45° east. Descend.
- 65.20 Canon, 30 lks. wide, 100 feet below top of spur, course south. Ascend.
- 70.89 Top of spur, 200 feet above canon, bears north and south. Descend.
- 80.19 The corner to sections 13, 14, 23, 24.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 80.19 chs.

From the corner to sections 15, 16, 21 and 22, as described previously, I run

South 89° 43' west on a random line between sections 16 and 21.

- 40.22 To a point 2 links north of quarter section corner, which is a sandstone 4 x 5 x 12 ins., above the ground, the marks partly obliterated and the mound nearly destroyed, I remarked stone S G F R $\frac{1}{4}$ on north face and rebuilt stone mound, 1½ ft. high, 2 ft. base north of corner. Pits impracticable.
Thence I run

North 89° 41' east on a true line bet. secs. 16 and 21.

Over dense, brushy top of ridge.

13.22 Top of ridge, 200 ft. above quarter section corner, bears north 20° west and south 20° east. Descend.

24.22 Ravine, 5 lks. wide, 180 ft. below top of ridge, course south 9° east. Ascend.

29.42 Top of spur, 200 ft. above ravine, bears north 36° west and south 36° east. Descend.

40.22 The corner to sections 15, 16, 21 and 22.

From the quarter section corner, I continue south 89° 43' W.

40.19 To a point, 5 lks. south of corner to sections 16, 17, 20 and 21, which is a granite stone, 5 x 10 x 4 ins., above the ground, marked and witnessed as described by the Surveyor General, the mound being in poor order, I rebuild the same 1½ ft. high 2 ft. base west of corner. Pits impracticable. Also marked stone S G F R on north face, thence North 89° 47' east on a true line between sections 16 and 21. Ascend.

13.41 Top of ridge, 200 ft. above section corner, bears north 32° east and south 32° west. Descend.

32.91 Canon, 20 lks. wide, 300 feet below top of ridge, course south 10° west. Ascend.

39.91 To edge of dense brushy flat on top of ridge, 150 ft. above canon, bears northwest and southeast and over same.

40.19 The quarter section corner.

Land mountainous. Soil, third rate. No timber.

Dense undergrowth of chaparral. Mountainous land, 80.41 chs.

September 3, 1896.

September 4th; at 7h. 00m. A.M., l.m.t., I set off 34° 10' north, on the lat. arc; 6° 54' N. on the decl. arc; and determine a true meridian with the solar at the corner to secs. 16, 17, 20 and 21, previously described, from the cor. to secs. 16, 17, 20, 21, I run

North $89^{\circ} 50'$ west on a random line bet. sections 17 and 20, 18 and 19.

After diligent search, being unable to find any trace of old corners, I set temp. corners at every 40 and 80 chs. and at 160.94 chains intersect range line, bet. Tps. 1 N., R. 9 and 10 W., at a point 42 lks. north of corner to sections 13, 18, 19 and 24, where I found a decayed post, with marks partly obliterated, in a mound of stone. I destroyed old post and in its place, set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked S G F R 12 T 1 N S 18 on northeast, R 9 W S 19 on southeast, R 10 W S 24 on southwest and

S 13 on northwest faces, and raised a mound of stone, covered with earth, 3 ft. base, $1\frac{1}{2}$ ft. high, around post. Thence I run South $89^{\circ} 59'$ east on a true line between sections 18 and 19. Descend.

19.88 Ravine, 5 lks. wide, 150 feet below section corner, course south 5° east. Ascend.

25.88 Top of spur, 200 ft. above ravine, bears north and south. Descend.

37.50 Canon, 10 lks. wide, 200 feet below top of spur, course south. Ascend.

40.89 $\frac{1}{2}$ Set a sandstone, 21 x 18 x 7 ins., 16 ins. in the ground, for quarter section corner, marked S G F R $\frac{1}{4}$ on north face; and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, north of corner. Pits impracticable.

44.85 Top of spur, 150 ft. above canon, bears north 21° west and S. 21° east. Descend.

50.80 Canon, 20 lks. wide, 250 ft. below top of spur, course south 20° east. Ascend.

61.38 Top of spur, 400 ft. above canon, bears north and south.

Descend.

76.75 Ravine, 10 lks. wide, 100 feet below top of spur, course south.

Ascend.

80.91 Set a sandstone 24 x 18 x 9 ins., 18 ins. in the ground for corner to sections 17, 18, 19 and 20, marked S G F R on north face, with 3 notches on south and 5 notches on east edges; and raised a mound of stone, 2 ft. base, 1½ ft. high, west of cor. pits impracticable.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 80.47 chs.

South 89° 59' east on a true line between sections 17 and 20.

Ascend.

9.00 Top of ridge, 300 ft. above last ravine, bears north and south.

Descend.

18.00 Canon, 20 lks. wide, 250 ft. below top of spur, course south.

Ascend.

25.10 Top of spur, 100 ft. above canon, bears north and south.

Descend.

? .00 Ravine, 5 lks. wide, 150 feet below top of spur, course south.

Ascend.

35.00 Top of spur, 100 ft. above ravine, bears north and south.

Descend.

40.01½ Set a sandstone 20 x 16 x 8 ins. 15 ins. in the ground, for quarter section corner, marked S G F R ¼ on north face; and raised a mound of stone 1½ ft. high, 2 ft. base, north of corner. Pits impracticable.

? .95 Enter Little Dalton Canon, 300 ft. below top of spur, course south

69.00 Creek, 5 lks. wide, course south.

70.35 Leave Little Dalton Canon, course south. Ascend.

80.03 The cor. to sections 16, 17, 20 and 21.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land 80.47 chs.

September 4, 1896.

September 5th at 7h. 00m. A.M., l.m.t., I set off $34^{\circ} 10'$ N. on the lat. arc; $6^{\circ} 31'$ N. 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 range line between Tps. 1 N., Rs. 9 and 10 W. previously described, I run North on a random line between sections 13 and 18.

43.02 To a point, 14 lks. west of old stone mound; from which bears
a live oak 14 ins. dia. south 10° west, 107 lks. dist.,
marked W C $\frac{1}{4}$ S B T

Being unable to find any trace of quarter section post, to re-establish corner, I set a granite stone $24 \times 17 \times 9$ ins., 18 ins. in the ground, marked W C $\frac{1}{4}$ on west face, S G F R on east face; and rebuilt stone mound, $1\frac{1}{2}$ ft. high, 2 ft. base, west of corner. Pits impracticable. Thence I run South $0^{\circ} 11'$ west on a true line bet. sections 13 and 18.

Descend. Counting distances from point for quarter sec. cor.

† .45 Gulch 10 lks. wide, 90 ft. below quarter section corner, course west. The true point for quarter section falls in this gulch, which is not a suitable place to mark. Ascend.

12.75 Trail to Glendora, bears east and west.

40.52 The corner to sections 13, 18, 19 and 24. Counting distances from the true point for quarter section corner, I continue North on a random line.

40.27 To a point 15 lks. east of corner to sections 7, 12, 13 and 18, which is a sycamore post, marked and witnessed as described by the Surveyor General, with the exception of the bearing trees, which have been cut down and destroyed. To re-establish corner and to mark corner No. 13 on the boundary of the San Gabriel Forest Reservation, in place of the sycamore post, I set a square, hollow iron post, filled with cement, etc., 3 ft. long the sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked
T 1 N S 7 on northeast,

R 9 W S 18 on southeast,
 R 10 W S 13 on southwest and
 S G F R 13, S 12 on northwest faces; and rebuilt mound of stone
 1½ ft. high, 4 ft. base around post. Thence I run
 South 0° 13' east, on a true line between sections 13 and 18.
 Through Canada San Gabriel, and ascend west slope of mountain.
 2.00 Leave San Gabriel Canada and asc. W. slope of mountain.
 4.50 Top of spur 80 lks. above canada, bears east and west. Descend.
 37.25 To witness corner to quarter section corner.
 40.27 To true point for quarter section corner.
 Land mountainous. Soil third rate. Scattering sycamore and
 oak timber. Dense undergrowth of chaparral.
 Mountainous land, 80.27 chs.

 From the corner to sections 7, 12, 13 and 18, on range line
 between townships 1 N., Rs. 9 and 10 W., previously described,
 I run
 North 89° 51' west on a random line bet. sections 12 and 13.
 37.50 To a point 8 lks. north of witness corner to quarter section
 corner which is a partially decayed post, marked and witnessed
 as described by the Surveyor General. I do not remark this
 corner as I find that the quarter section corner can be set
 in the proper place. Thence I run
 South 89° 58' east on a true line between secs. 12 and 13.
 Descend through Canada San Gabriel.
 5.00 Telegraph line, bears north and south.
 7.75 San Gabriel River, 50 lks. wide, course south.
 The Victoria Silver Mining Co's mill, bears north 4.50 chs.
 8.50 A large rock mound, bears south 20 lks. dist.
 10.00 Leave Canada San Gabriel, course southwest and ascend.
 13.30 A redwood stake, 4 ins. square, marked section 12 and 13 S 1
 on east and P S L on west faces, bears south 4 lks. dist.
 19.50 Top of spur, 100 ft. above canada, bears north and south.

Descend.

21.75 Gulch 10 lks. wide, 150 ft. below top of spur, course north.

Ascend.

24.50 Top of spur, 75 ft. above gulch, bears north and south.

Descend.

32.00 Enter Canada San Gabriel, course southeast and through same.

37.50 The corner to sections 7, 12, 13 and 18.

From the witness corner to quarter section corner, I continue north $89^{\circ} 51'$ west on a random line.

42.37 To a point 3 lks. north of corner to sections 11, 12, 13 and 14, where I found pits in their proper places and a portion of an old earth mound but no trace of post.

To re-establish corner I set a granite stone 20 x 14 x 8 ins. 15 ins. in the ground, marked with 4 notches on south and 1 notch on east edges, redug pits, 18 x 18 x 12 ins., in each section, $5\frac{1}{2}$ ft. dist. and raised a mound of earth, 4 ft. base, 2 ft. high west of corner. I also marked stone S G F R on north face, thence I run

South $89^{\circ} 54'$ east on a true line between sections 12 and 13.

Descend.

7.37 Head of gulch, 100 ft. below section corner, course south.

Ascend.

11.37 Top of spur, 150 ft. above gulch, bears northwest and southeast. Descend.

39.93 $\frac{1}{2}$ Set a post 3 ft. long, 3 ins. square with marked stone 24 ins. in the ground, for quarter section corner, marked S G F R $\frac{1}{4}$ S on north face; dug pits 18 x 18 x 12 ins., east and west of post, 3 ft. distant and raised a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, north of corner.

42.37 To old witness corner to quarter section corner.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 79.87 chains.

- From the corner to sections 11, 12, 13 and 14 I run
 South 89° 47' west on a random line bet. secs. 11 and 14.
- 40.03 To old quarter section corner where I found a stone mound but
 no other trace of corner. This point being on almost perpen-
 dicular mountain side, I do not rebuild corner but from this
 point, I run
 North 89° 47' east on a true line bet. secs. 11 and 14. Ascend.
- 7.03 Trail, bears north and south on summit of ridge, 400 ft. above
 quarter section corner, bears north and south.
 As I find it impossible to convey iron post 14 to its proper
 place west of this point, on the boundary of the Reservation,
 on account of the rough character of the land, at this point,
 which is 127.30 chains south 89° 38' east of the proper point
 for said corner, I set a square hollow iron post, filled with
 cement, etc., 3 ft. long, with sides 4 ins. wide at the top
 increasing to 12 ins. wide, at the bottom, 12 ins. in the ground,
 for witness corner to corner No. 14 on boundary of San Gabriel
 Forest Reservation, marked
 T 1 N S 10 on northeast,
 R 10 W S 15 on southeast,
 S 16 on southwest and
 S G F R 14 S 9 on northwest faces; dug pits, 36 x 36 x 12
 inches, north and south of post, 4 ft. dist. and raised a mound
 of stone, 1½ ft. high, 5 ft. base around post, alongside which
 I set a granite stone 20 x 16 x 8 ins., 15 ins. in the ground
 marked W C 127.30 on north face, to further mark this witness
 corner. Descend.
- 31.03 Gulch 30 lks. wide, 600 feet below top of ridge, course south
 30° east. Ascend.
- 36.03 Top of spur, 150 ft. above gulch, bears north and south.
 Descend.
- 40.03 The corner to sections 11, 12, 13 and 14.
 From the old quarter section corner, I run
 South 89° 47' west on a random line between sections 11 and 14.

- 40.12 To a point 12 lks. south of corner to sections 10, 11, 14 and 15, which is a granite stone 5 x 6 x 11 ins. above the ground, marked and witnessed as described by the Surveyor General and witnessed by a stone mound, nearly destroyed. I rebuild mound, $1\frac{1}{2}$ ft. high, 2 ft. base alongside. Pits impracticable. I mark stone S G F R on north face, thence I run North $89^{\circ} 57'$ east on a true line between sections 11 and 14. Ascend.
- 7.10 Summit of ridge 500 ft. above section corner, bears north 40° east and south 40° west. Descend.
- 13.05 Gulch, 50 lks. wide, 350 ft. below top of ridge, course south, Ascend.
- 40.12 The quarter section corner.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral and buckthorn. Mountainous land, 80.15 chs.

September 5, 1896.

- September 7th; at 7h. 00m., l.m.t., I set off $34^{\circ} 11'$ north on the lat. arc; $5^{\circ} 47'$ north on the decl. arc; and determine a true meridian with the solar, at the corner to sections 10, 11, 14 and 15, previously described.
- From the corner to sections 10, 11, 14 and 15, I run North $89^{\circ} 41'$ west on a random line bet. secs. 10 and 15.
- 40.00 After diligent search, being unable to find any trace of old quarter section corner, I set temporary quarter section cor. and continue north $89^{\circ} 41'$ west.
- 80.15 To a point 15 lks. south of corner to secs. 9, 10, 15 and 16, which is a granite stone, 12 x 9 x 5 ins., above the ground, the marks nearly obliterated and the mound partly destroyed, I mark stone S G F R on north face with 4 notches on south and 3 notches on east edges and rebuild stone mound $1\frac{1}{2}$ ft. high, 2 ft. base, north. Pits impracticable. This is the proper point for corner No. 14 San Gabriel Forest Reservation boundary, to which I found it impossible to convey iron post.

Thence I run

South $89^{\circ} 35'$ east on a true line bet. sections 10 and 15.

Ascend.

18.65 Top of ridge, 500 ft. above section corner, bears north 40° west and south 40° east. Descend.

40.07 $\frac{1}{2}$ Set a granite stone 20 x 14 x 12 ins., 15 ins. in the ground for quarter section corner, marked S G F R $\frac{1}{4}$ on north face, and raised a mound of stone $1\frac{1}{4}$ ft. high, 2 ft. base north of corner. Pits impracticable.

48.15 Gulch, 30 lks. wide, 600 feet below top of ridge, course SE. Ascend.

60.95 Top of spur, 300 ft. above gulch, bears north and south. Descend.

72.00 Gulch 25 lks. wide, 250 ft. below top of spur, course south. Ascend.

80.15 The corner to sections 10, 11, 14 and 15.
Land mountainous. Soil third rate. Dense undergrowth of chaparral and buckthorn. No timber. Mountainous land, 80.15 chs.

From the corner to secs. 9, 10, 15 and 16, I run

South $89^{\circ} 48'$ west on a random line, bet. secs. 16 and 9.

40.10 To a point 5 lks. south of quarter section corner, which is a granite stone, 5 x 5 x 13 ins., above the ground, the marks partly obliterated and the mound nearly destroyed, remarked stone S G F R $\frac{1}{4}$ on north face and rebuilt mound of stone. Pits impracticable. Thence I run

North $89^{\circ} 52'$ east on a true line bet. secs. 9 and 16.

Ascend.

7.60 Summit of ridge, 300 ft. above section corner, bears northeast and southwest. Descend.

19.10 Ravine, 15 lks. wide, 500 ft. below summit of ridge, course south. Ascend.

40.10 The corner to sections 9, 10, 15 and 16,

- From the quarter section corner, I continue South $89^{\circ} 48'$ west.
- 39.86 To a point 18 lks. south of corner to sections 8, 9, 16 and 17, which is a granite stone $5 \times 5 \times 10$ ins., above the ground, marked as described by the Surveyor General, the stone mound being in bad condition, I rebuild same, $1\frac{1}{2}$ ft. high, 2 ft. base, I mark stone S Q F R on north face, pits impracticable. Thence I run South $89^{\circ} 57'$ east on a true line bet. secs. 9 and 16. Ascend.
- 5.06 Summit of ridge, 250 ft. above section corner, bears north 15° west and south 15° east. Descend.
- 16.76 Gulch 45 lks. wide, 500 feet below summit of ridge, course S. Ascend.
- 39.86 The $\frac{1}{4}$ sec. cor.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral and buckthorn. Mountainous land 79.96 chs.

September 7, 1896.

September 8, at 7h. 00m., l.m.t., I set off $34^{\circ} 11'$ north on the lat. arc; $5^{\circ} 24'$ north on the decl. arc, and determine a true meridian with the solar, at the corner to sections 8, 9, 16 and 17, previously described.

- From the corner to secs. 8, 9, 16 and 17, I run South $89^{\circ} 45'$ west on a random line, bet. secs. 8 and 17.
- 40.00 After diligent search, being unable to find any trace of $\frac{1}{4}$ sec. corner, I set temp. $\frac{1}{4}$ section corner and continue south $89^{\circ} 45'$ west.
- 80.36 To a point 16 lks. north of corner to sections 7, 8, 17 and 18, where I found a portion of an old stone mound but no other trace of corner. To re-establish same, I set a granite stone $20 \times 10 \times 8$ ins., 15 ins. in the ground, marked S Q F R on north face, with 4 notches on south and 5 notches on east edges and rebuilt stone mound $1\frac{1}{2}$ ft. high, 2 ft. base west of corner. Pits

impracticable. Thence I run

North $89^{\circ} 38'$ east on a true line bet. secs. 8 and 17. Ascend.

13.26 Top of spur, 500 ft. above section corner, bears north 60° west and south 60° east. Descend.

31.66 Ravine, 60 lks. wide, 700 feet below top of spur, course south 30° east. Ascend.

38.36 Top of ridge, 300 feet above ravine, bears northwest and southeast. Descend.

40.18 Set a sandstone $40 \times 18 \times 8$ ins., 30 ins. in the ground, for quarter section corner, marked S G F R $\frac{1}{4}$ on north face and raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base north of corner. Pits impracticable.

68.36 Gulch 15 lks. wide, 600 feet below top of ridge, course south. Ascend.

80.36 The corner to sections 8, 9, 16 and 17.

Land mountainous. Soil third rate. Dense undergrowth of chamisal. Mountainous land, 80.36 chs.

From the corner to sections 7, 8, 17 and 18, I run

North $89^{\circ} 49'$ west on a random line bet. secs. 7 and 18.

40.15 To a point 10 lks. north of old stone mound, being unable to find any other trace of old quarter section corner to re-establish same I set a sandstone $20 \times 18 \times 10$ ins., 15 ins. in the ground, marked S G F R $\frac{1}{4}$ on north face and rebuilt stone mound $1\frac{1}{2}$ ft. high, 2 ft. base north of corner. Pits impracticable.

Thence I run

South $89^{\circ} 58'$ east on a true line bet. secs. 7 and 18.

Descend.

1.65 Ravine 20 lks. wide, 6 ins. water flowing in same, course northwest and continue descent along same.

15.15 Same ravine, 25 links wide, 200 feet below quarter section corner, course southwest. Ascend.

27.15 Top of spur, 300 ft. above ravine, bears northwest, and southeast.

- Descend.
- 35.65 Gulch 10 lks. wide, 200 ft. below top of spur, course northwest.
- Ascend.
- 40.15 The corner to sections 7, 8, 17 and 18.
- From the quarter section corner, I continue north $89^{\circ} 49'$ west.
- 40.54 To a point 30 lks. south of slight traces of old corner to sections 7, 12, 13 and 18 on range line between Tps. 1 N., Rs. 10 and 11 W., I set temporary corner to sections 7, 12, 13 and 18 and to fully establish the location of this corner, proceed to the corner to sections 11, 12, 13 and 14, T. 1 N., R. 11 W., which is a sandstone $9 \times 20 \times 10$ ins. above the ground, marked and witnessed as described by the Surveyor General, which I mark S G F R on north face, thence
- East on a random line bet. secs. 12 and 13.
- 40.05 To a point 2 lks. north of old stone mound, I am unable after diligent search to find any other trace of corner and to re-establish same, set a granite stone $32 \times 16 \times 14$ ins., 24 ins. in the ground, marked S G F R $\frac{1}{4}$ on north face and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base north of corner.
- Pits impracticable, thence I run
- North $89^{\circ} 58'$ west on a true line between sections 12 and 13.
- Descend.
- 2.55 Ravine 50 lks. wide, course south 20° west; continue descent.
- 5.25 Old wagon road bears northeast and southwest.
- 30.05 Head of gulch, 300 feet below quarter section corner, course southeast. Ascend.
- 36.80 Top of ridge, 200 ft. above gulch, bears northeast and southwest. Descend.
- 38.55 Gulch 15 lks. wide, 100 feet below top of ridge, course southwest. Ascend.
- 40.05 The corner to sections 11, 12, 13 and 14.
- From the quarter section corner, I continue east.
- 40.00 To a point 5 lks. south of temporary corner set for cor. to

sections 7, 12, 13 and 18. I therefore conclude that this is the proper point for said corner, but as it falls on nearly perpendicular slope of spur, not a suitable place to mark, I proceed east 75 lks. and re-establish corner at

40.75

By setting a square, hollow, iron post filled with cement 3 ft. long, the sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground for witness to cor. and to corner No. 15 on boundary of Reservation, marked

T 1 N S 7 on northeast,

R 10 W S 18 on southeast,

R 11 W S 13 on southwest and

S & F R 15 S 12 on northwest faces, digging pits 36 x 36 x 12 ins., north and south of post 4 ft. distant and raised a mound of earth $1\frac{1}{2}$ ft. high, 5 ft. base around post; alongside which I set a sycamore post $3\frac{1}{2}$ ft. long, 4 ins. square, 24 ins. in the ground. Marked W C 75 lks. on north face, thence I run South $89^{\circ} 56'$ west on a true line between sections 12 and 13. Ascend.

.75

True point for cor. to secs. 7, 12, 13, 18.

20.30

Top of spur 400 feet above witness corner bears north and south. Descend.

26.00

Head of Maple Canon, 200 feet below top of spur, course south 20° east. Ascend.

28.80

Top of spur, 100 ft. above canon, bears north and southeast. Descend.

31.50

Trail bears north and southeast.

40.75

The quarter section corner.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.80 chs.

From the true point for corner to sections 7, 12, 13 and 18, on the west boundary T. 1 N., R. 10 W., just re-established by me, I run

South $89^{\circ} 23'$ east on a true line bet. secs. 7 and 18. Descend.

.39 Water pipe, 12 ins. dia. bears north and south.

3.54 Wagon road bears north and south.

4.29 Enter creek bottom course south.

10.54 Wagon road, bears north 60° west and south 60° east.

13.19 Leave creek bottom and continue descent.

17.04 Old mass house, bears south 3.50 chs. dist.

24.04 Center of Saw Pit Creek, 100 lks. wide, course southwest
400 ft. below section corner. Ascend.

25.49 Wagon road to Deer Park, bears NE. and SW.

38.19 Top of spur, 200 ft. above creek, bears N. and S. Descend.

40.54 The quarter section corner.

Land mountainous. Soil third rate. No timber. Dense under-
growth of chaparral and buckthorn. Mountainous land, 80.64 chs.

September 8, 1896.

September 9th; at 7h. 00m. A.M., L.M.T., I set off $34^{\circ} 11'$ north
on the lat. arc, $5^{\circ} 01'$ north of the decl. arc, and determined
a true meridian with the solar at the corner to sections 11,
12, 13, and 14, previously described.

Through T. 1 N., R. 11 W., S. B. M.

From the corner to sections 11, 12, 13 and 14, T. 1 N., R. 11 W.,
previously described, I run

South $89^{\circ} 44'$ west on a random line bet. secs. 11 and 14.

40.60 To a point 5 lks. south of quarter sec. cor., which is a granite
stone 12 x 12 x 6 ins., above the ground, the marks partly de-
faces and the stone mound in bad condition. I marked stone
S G F R $\frac{1}{4}$ on north face and rebuilt stone mound $1\frac{1}{2}$ ft. high,
2 ft. base. Pits impracticable. Thence I run

North $89^{\circ} 48'$ east on a true line bet. secs. 11 and 14. Descend.

15.00 Gulch 10 lks. wide, 300 ft. below quarter sec. cor., course
south 20° E. Ascend.

- 18.00 Top of spur 150 ft. above gulch, bears north and south. Descend.
- 21.60 Stream 2 lks. wide, in canon, 200 ft. below top of spur, course southwest. Ascend.
- 32.40 Trail bears north 20° west and south 20° east.
- 32.90 Top of ridge bears northeast and southwest 500 ft. above canon. A reservoir 6 x 10 ft. bears south 50 lks. dist. Descend.
- 36.50 Head of gulch 150 ft. below top of ridge, course southwest. Ascend.
- 39.00 Top of spur, 200 ft. above gulch bears north and south. Descend.
- 40.60 The corner to sections 11, 12, 13 and 14.
From the quarter section corner I continue south 89° 44' west.
- 40.00 To a point 16 lks. south of corner to sections 10, 11, 14 and 15, where I found a mound of stone, but no other trace of cor. To re-establish same, I set a post 3 ft. long, 4 ins. square with marked stone 12 ins. in the ground, marked
T 1 N S 11 S G F R on northeast,
R 11 W S 14 on southeast,
S 15 on southwest and
S 10 on northwest faces, with 2 notches on east and 4 notches on south edges and raised a mound of stone, 2 ft. base, 1½ ft. high, west of corner. Pits impracticable. Thence I run North 89° 59' east on a true line between sections 11 and 14. Ascend.
- 15.00 Top of spur, 600 ft. above section corner, bears north 20° east and south 20° west. Descend.
- 19.20 Ravine, 20 lks. wide, 100 ft. below top of spur, course south. Ascend.
- 30.50 Top of spur, 400 ft. above ravine, bears north and south. Descend.
- 36.90 Gulch 10 lks. wide, 300 ft. below top of spur, course south. Ascend.
- 40.00 To quarter section corner, on top of spur, 250 ft. above gulch, bears north and south.
Land mountainous. Soil third rate. Scattering timber of

sycamore and oak. Dense undergrowth of chamisal.

Mountainous land, 80.60 chs.

From the corner to sections 10, 11, 14 and 15, I run
South $89^{\circ} 40'$ west on a random line bet. secs. 10 and 15.

40.21 To a point 18 lks. south of quarter section corner, which is
a granite stone $5 \times 7 \times 11$ ins., above the ground, the marks
partly obliterated and the stone mound in bad condition. I
remarked stone S G F R $\frac{1}{4}$ on north face and rebuilt stone mound,
 $1\frac{1}{2}$ ft. high, 2 ft. base, pits impracticable. Thence I run
North $89^{\circ} 55'$ east on a true line bet. secs. 10 and 15.

8.00 Santa Anita Canon, 50 lks. wide, 500 feet below quarter sec.
cor., course south. Ascend.

40.21 The corner to sections 10, 11, 14 and 15.

From the quarter section corner, I continue south $89^{\circ} 40'$ west.

40.09 To a point 10 lks. north of corner to sections 9, 10, 15 and
16, where I found a portion of an old post lying on the ground,
but no trace of corner. To establish same, I set a granite stone
 $20 \times 14 \times 10$ ins., 15 ins. in the ground, marked S G F R on north
face, with 3 notches on east and 4 notches on south edges and
raised a stone mound $1\frac{1}{2}$ ft. high, 2 ft. base west of corner.
Pits impracticable. As it is impossible to convey iron post
No. 16 to this point, on account of the rough character of the
land, I set it as witness corner, as hereafter described,
thence I run

North $89^{\circ} 31'$ east on a true line bet. sections 10 and 15.
Descend.

6.09 Gulch 300 feet below section corner, course south. Ascend.

11.09 Top of spur 350 ft. above gulch, bears north and south.
Descend.

15.50 Head of gulch, 200 feet below top of spur, course south.
Continue descent.

16.34 Trail bears north 70° east and 70° west.

- 18.00 Head of gulch 500 ft. below top of last spur, course southwest.
Ascend.
- 20.50 Set a square, hollow iron post filled with cement 3 ft. long, the sides 4 ins. wide, at the top, increasing to 12 ins. wide, at the bottom, 12 ins. in the ground, for witness corner to corner No. 16 on boundary of San Gabriel Forest Reservation, marked T 1 N S 10 on northeast,
R 11 W S 15 on southeast,
S 16 on southwest and
S G F R 16 S 9 on northwest faces, dug pits 36 x 36 x 12 ins. north and south of post, 4 ft. dist., and raised a mound of earth 1 ft. high, 5 ft. base around post. To further mark cor. I set a sandstone 20 x 16 x 8 ins., 15 ins. in the ground, alongside post, marked W C 20.50 chs. on north face.
- 26.69 Top of spur, 400 ft. above gulch, bears northwest and southeast.
Descend.
- 40.09 The quarter section corner.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.30 chs.
-
- From the corner to secs. 9, 10, 15, 16, I run
North 89° 43' west on a random line, between secs. 9 and 16.
- 40.00 After diligent search, failing to find any trace of old quarter section corner, I set temporary quarter section corner and continue north 89° 43' west.
- 80.40 To a point 14 lks. north of corner to secs. 8, 9, 16 and 17, where I found an old stone mound, but no other trace of cor. To re-establish same, set a granite stone 36 x 36 x 20 ins., 27 ins. in the ground, marked with 4 notches on south and east edges and raised a stone mound 1½ ft. high, 2 ft. base west of corner. Pits impracticable. Also marked stone S G F R on north face, thence I run
South 89° 49' east on a true line bet. secs. 9 and 16. Ascend.

- 6.40 Top of ridge 400 ft. above section corner, bears north and south. Descend.
- 11.30 Old Nelson Trail, bears north and south.
- 15.20 Bottom of Little Santa Anita Canon, 700 ft. below top of ridge, course south 20° east. Ascend.
- 40.20 True point for quarter section corner, falls on steep slope of spur, not a suitable place to mark.
- 50.40 Top of spur, 700 ft. above canon, bears north 50° east and south 50° west. Descend.
- 54.10 Set a granite stone 22 x 12 x 10 ins., 16 ins. in the ground for witness to quarter section corner, marked S G F R W C $\frac{1}{4}$ on north face, and raised a mound of stone $1\frac{1}{2}$ ft. high, 2 ft. base north of corner. Pits impracticable.
- 73.24 Gulch 10 links wide, 500 feet below top of spur, course south 30° east. Ascend.
- 80.40 The corner to sections 9, 10, 15 and 16 on top of spur, 200 ft. above gulch, bears north and south.
- Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.40 chs.

September 9, 1896.

September 10, at 7h. 00m. A.M., l.m.t., I set off 34° 11' N. on the lat. arc; 4° 38' north on the decl. arc; and determine the true meridian with the solar, at the corner to secs. 8, 9, 16 and 17, previously described.

From the corner to sections 8, 9, 16, 17, I run

North 89° 43' west on a random line bet. secs. 8 and 17, I run

- 40.00 After diligent search, failing to find any trace of quarter section corner, I set temporary and continue north 89° 43' west.

- 80.30 To a point 20 lks. south of corner to sections 7, 8, 17 and 18, where I found a portion of an old stone mound, but no other trace of corner. To re-establish same, I set a post 3 ft. long, 4 ins. square, with marked stone 24 ins. in the ground, marked T 1 N S 8 S G F R on northeast, R 11 W S 17 on southeast,

S 18 on southwest, and

S 7 on northwest faces, with 5 notches on east and 4 notches on south edges, dug pits 18 x 18 x 12 ins., in each section, 5½ ft. dist., and raised a mound of earth, 4 ft. base, 2 ft. high, west of corner. Thence I run

South 89° 34' east on a true line, between sections 8 and 17.
Descend.

- 1.60 Head of gulch, course south, 30° west. Ascend.
- 4.80 Top of spur, 150 ft. above gulch, bears north and south. Descend.
- 14.40 Canon 50 lks. wide, 500 ft. below top of spur, course south.
Ascend.
- 40.15 The true point for quarter section corner, falling on steep slope not a suitable place to mark, I continue south 89° 34' east and at
- 49.97 Set a sandstone, 18 x 10 x 10 ins., 12 ins. in the ground, for witness corner to quarter section corner, marked
S G F R W C ¼ on north face, dug pits 18 x 18 x 12 ins., east and west of stone 3 ft. distant and raised a mound of earth 1½ ft. high, 3½ ft. base north of corner on top of spur, 700 ft. above canon, bears north and south. Descend.
- 50.20 A graded trail bears north and south.
- 60.30 Ravine 20 lks. wide, 400 feet below quarter section corner, course south. Ascend.
- 68.80 Top of ridge, 200 ft. above ravine, bears north and south.
Descend.
- 75.75 Head of canon, 20 lks. wide, 150 feet below top of ridge, course south. Ascend.
- 80.30 The corner to sections 8, 9, 16 and 17.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal and buckthorn. Mountainous land, 80.30 chs.

From the corner to sections 7, 8, 17 and 18, I run
West on a random line bet. secs. 7 and 18.

- 41.90 To a point 100 lks. south of old quarter section corner, where I found a portion of an old mound, but no other trace of marking. To re-establish same, I set a post 3 ft. long, 3 ins. square with marked stone 24 ins. in the ground, marked S G F R $\frac{1}{4}$ S on north face and raised a stone mound $1\frac{1}{2}$ ft. high, 2 ft. base north of corner. Pits impracticable. Thence I run South $88^{\circ} 38'$ east on a true line bet. secs. 7 and 18. Descend.
- 3.43 Gulch 10 lks. wide, 100 ft. below quarter section corner, course south. Ascend.
- 9.53 Top of spur 400 ft. above gulch, bears north and south. Hastings's house bears south $19\frac{1}{2}^{\circ}$ east. Descend.
- 13.03 Gulch 10 lks. wide, 202 feet below top of spur, course southeast. Ascend.
- 16.53 Top of spur, 150 lks. above gulch, bears north and south. Descend.
- 26.03 Canon, 50 lks. wide, 500 ft. below top of spur, course south. Ascend.

36.03 Top of spur 700 ft. above canon, bears north 30° east,
south 30° west.

Hastings' house bears south 41° west. Descend.

41.91 The corner to sections 7, 8, 17 and 18.

From the quarter section corner, I continue west.

39.63 To a point 10 lks. south of corner to sections 7, 12, 13
and 18, on west boundary of T. 1 N., R. 11 W., where I
found an old stone mound, but no other trace of corner.
To re-establish same and also to mark corner No. 17 on
boundary of San Gabriel Forest Reservation, I set a
square, hollow iron post, filled with cement, etc., 3 ft.
long, the sides 4 ins., wide, at the top, increasing to
12 ins. wide, at the bottom, 12 ins. in the ground,
marked

S G F R 17 T 1 N S 7 on northeast,

R 11 W S 18 on southeast,

R 12 W S 13 on southwest, and

S 12 on northwest faces, dug pits $36 \times 36 \times 12$ ins.,
north and east of post, 4 ft. dist., and raised a mound
of earth 1 ft. high, 5 ft. base around post; from which
bears

a eucalyptus tree, 12 ins. dia. north 12° east, 20 lks.
dist., marked S G F R 17 T 1 N S 7 B T

a eucalyptus 10 ins. dia. south 15° east, 13 lks. dist.
marked T 1 N R 11 W S 18 B T

thence I run

South $89^{\circ}51'$ east on a true line bet. sections 7 and 18.
Descend through Eucalyptus grove.

2.56 Leave grove and cross ravine, 25 lks. wide, 50 ft. below
sec. corner, course south--and continue descent.

- 4.16 Wagon road bears north and south.
Enter C. H. Brown's orchard bears north and south.
- 8.16 C. H. Brown's barn bears south 50 lks. dist.,
- 11.46 Northwest corner of C. H. Brown's residence, bears south
3.00 chains distant.
- 16.66 Leave orchard bears north and south and continue descent.
- 19.97 Center of arroyo, 50 lks. wide, 100 feet below ravine,
course south. Ascend.
- 23.03 Top of spur, 200 feet above arroyo, bears north and south.
Descend.
- 24.16 Gulch 50 ft. below top of spur, course south 20° west,
Ascend.
- 35.66 Top of spur, 400 ft. above gulch, bears northeast and
southwest.
Descend.
- 39.63 The quarter section corner.
Land mountainous and broken. Soil third rate. A grove
of eucalyptus timber on line. Dense undergrowth of
chamisal and buckthorn. Mountainous land, 64.87 chs.

September 10, 1896.

E.B.T. 1 N., R. 12 W., S.B.M.

September 11th: at 7h. 00m. A.M., l.m.t., I set off
34°11' north on the lat. arc., 4°15' north on the decl.
arc. and determine a true meridian with the solar at the
corner to secs. 7, 12, 13 and 18 on east boundary T.1 N.,
R. 12 W., previously described.
From the corner to secs. 7, 12, 13 and 18 on east bound-
ary T.1 N. R 12 W., I run

North on a random line bet. secs. 7 and 12.

40.25 To a point 12 lks. east of old quarter section corner where I found a portion of an old stone mound, but no other trace of corner. To remark same, I set post 3 ft. long, 3 ins. square with marked stone, 24 ins. in the ground, marked

S G F R on east and $\frac{1}{4}$ S on west faces and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high west of corner. Pits impracticable. I run south $0^{\circ}10'$ east on a true line bet. secs. 7 and 12.

Descend through dense chaparral.

10.25 Gulch, 10 lks. wide, 200 feet below quarter section corner course southwest. Ascend.

12.25 Top of spur, 75 ft. above gulch, bears northeast and southwest. Descend.

15.75 Center of canon, 100 lks. wide, 125 ft. below top of spur, course southwest. Ascend.

19.00 Pipe line, bears northeast and southwest.

20.45 An old stake in stone mound, no marks.

20.75 Top of spur, 200 ft. above canon, bears northeast and southwest. Descend.

22.75 Leave chaparral and enter vineyard, bears east and west.

30.00 Leave vineyard and continue descent.

30.50 Enter wash, bears east and west.

33.25 Leave wash, bears east and west and over broken land.

36.75 Mr. Kenney's barn bears west, 3.50 chs. dist.

39.10 Wagon road, bears northwest and southeast and through eucalyptus grove.

40.25 The corner to secs. 7, 12, 13 and 18.

From the quarter section corner, I continue north.

- 42.35 To a point 16 lks. east of old corner to sections 1, 6, 7 and 12, which is a post marked and witnessed as described by the Surveyor General, and which I mark S G F R on northeast face, this is the true point for corner No. 18 on boundary line of San Gabriel Forest Reservation, but as it falls on precipitous slope, not suitable place to mark, I run west 11.00 chains and set a square hollow, iron post, filled with cement 3 ft. long, with sides 4 ins. wide, at the top, increasing to 12 ins. wide
- at the bottom, 12 ins. in the ground, for witness corner No. 18 on Reservation boundary, marked
- S G F R 18 T 1 N S 6 on northeast,
R 11 W S 7 on southeast,
R 12 W S 12 on southwest and
S 1 on northwest faces, dug pits 36 x 36 x 12 ins. north and south of post, 4 ft. distant and raised a mound of earth, $1\frac{1}{2}$ ft. high, 5 ft. base, around post, alongside which I set a sandstone 21 x 16 x 11 ins., 16 ins. in the ground, marked W C 11.00 chs. to further mark witness corner.
- From the true point for corner to sections 1, 6, 7 and 12, I run
- South $0^{\circ}14'$ east on a true line bet. secs. 7 and 12.
- Descend.
- 3.60 Head of ravine 150 ft. below section corner, course west.
- Ascend.
- 8.60 Top of spur 225 ft. above ravine bears east and west. Descend.
- 13.60 Head of ravine 300 ft. below top of spur, course west and continue descent.

42.35 The $\frac{1}{4}$ sec. cor.

Land mountainous, and broken. Soil third rate. Timber of sycamore and oak in ravines. Dense undergrowth of chaparral.

Mountainous land, 65.10 chs.

From the corner to secs. 1, 6, 7 and 12, I run

West on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.50 To a point 190 lks. north of old corner to sections 1, 2, 11 and 12, which is a decayed post, in earth mound with pits, the witness to corner being in poor order. This being an unsuitable place to mark corner No.19 on boundary of San Gabriel Forest Reservation, on account of the precipitous character of the land, I run west 15.50 chains and set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide at the top increasing to 12 ins. wide, at the bottom, 12 ins. in the ground, for witness corner to corner No.19 on boundary, marked

S G F R 19 T 1 N S 1 on northeast,

R 12 W S 12 on southeast,

S 11 on southwest and

S 2 on northwest faces, dug pits 36 x 36 x 12 ins., north and east of post, 4 ft. dist. and raised an earth mound, $1\frac{1}{2}$ ft. high, 5 ft. base around post alongside which I set a sandstone 21 x 10 x 8 ins., 16 ins. in the

ground, marked W C 15.50 chs. to further mark this witness corner, from which bears

a sycamore, 30 ins. dia. north $2\frac{1}{2}^{\circ}$ east, 120 lks. dist.,

marked W C S G F R 19 T 1 N S 1 on B T

a live oak 10 ins. dia. south 39° west, 38 lks. dist.,

marked W C T 1 N R 12 W S 11 B T

No other trees within limits.

From the true corner to sections 1, 2, 11 and 12, I run

North $88^{\circ}36'$ east on a true line bet. secs. 1 and 12.

Descend abruptly into canon and across same, course south.

39.25 The true point for $\frac{1}{4}$ sec. corner, falls on almost perpendicular east side of canon, course south, not a suitable place to mark.

I therefore continue north $88^{\circ}37'$ east, ascending and at

40.00 Set a sandstone 20 x 14 x 7 ins. 15 ins. in the ground for witness corner to quarter section corner, marked W C $\frac{1}{4}$ S G F R on north face, dug pits 18 x 18 x 12 ins., east and west of stone, 3 ft. dist., and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base north of corner. Witness corner set on top of spur, 900 ft. above bottom of canon, bears north and south. Descend.

46.50 Gulch 22 lks. wide, 400 feet below top of spur, course south.

Ascend.

50.00 A cabin, bears north 50 lks. dist.

51.50 A cabin, bears south 110 lks. dist.,

65.50 Mt. Wilson trail, bears northeast and southwest.

67.50 Old post in stone mound, on line no marks legible.

73.50 Top of spur, 700 ft. above last gulch, bears north and south.

Descend.

78.52 The corner to sections 1, 6, 7 and 12.

Land mountainous. Soil third rate. Scattering sycamore and oak timber. Dense undergrowth of chaparral. Mountainous land, 78.50 chains.

September 11, 1896.

September 12, at 7h. 0m., A.M., l.m.t., I set off $34^{\circ}12'$ north on the lat. arc.; $3^{\circ}53'$ north on the decl. arc and determine a true meridian with the solar, at the corner to sections 3, 4, 33 and 34 on north boundary of Tp. described on this page. I find it impossible to run north bet. sections 1 and 2 owing to precipitous bluffs and rugged mountains. I therefore go to the corner to sections 3, 4, 33 and 34 on north boundary of the township, where I found a well preserved post marked and witnessed as described by the Surveyor General.

I set off $3^{\circ}53'$ north on the decl. arc; and 12h 0m., l.m.t., observe the sun on the meridian; the resulting lat. is $34^{\circ}12'$ N.

To establish corner 21 on boundary of San Gabriel Forest Reservation at this point in place of the post, I set a square, hollow, iron post, filled with cement, etc., 3 ft. long, the sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked S G F R 21 T 2 N S 34 on northeast,
R 12 W S 3 on southeast,
T 1 N S 4 on southwest and
S 33 on northwest faces, dug pits 36 x 36 x 12 ins., north

- and south of post, 4 ft. dist., and raised a mound of earth, $1\frac{1}{2}$ ft. high, 5 ft. base around post, thence I run North $89^{\circ}31'$ east on a random line bet. secs. 3 and 34.
- 38.25 To a point 65 lks. north of old quarter section corner, which is a post set firmly in the ground in a stone mound which I rebuilt, $1\frac{1}{2}$ ft. high, 2 ft. base, the marks on the post being partly obliterated, I remark same S G F R $\frac{1}{4}$ S on north face; from which bears
- a live oak 10 ins. dia. south $84^{\circ}\frac{3}{4}^{\circ}$ west, 76 lks. dist.,
- which I mark $\frac{1}{4}$ S B T
- Thence I run
- North $89^{\circ}31'$ west on a true line bet. secs. 3 and 34.
- Ascend.
- 0.25 Top of spur, bears northeast and southwest. Top of dome of Mt. Lowe Hotel, bears north $60^{\circ}30'$ east. The smoke-stack on power house, bears north $53^{\circ}45'$ east. Descend.
- 17.75 Canon, 50 lks. wide, 500 feet below top of spur, course south 20° west. Ascend.
- 22.25 Top of spur, 100 ft. above canon, bears north and south. Descend.
- 33.50 Sycamore Canon, 100 lks. wide, 300 feet below top of spur, course southwest.
- Hamblin's house and barn are in the mouth of this canon, about 7.00 chs. dist., Ascend.
- 37.60 Top of spur, 100 ft. above canon, bears north and south. Top of dome of Mt. Lowe Hotel, bears north $74^{\circ}31'$ east. The smokestack on power house, bears north $70^{\circ}51'$ east. Descend.
- 38.25 The corner to sections 3, 4, 33 and 34,

From the quarter section corner I run

East on a true line bet. sections 3 and 34.

Descend.

13.75 Cross Las Flores Canon, 50 lks. wide, 600 ft. below
quarter section, course south. Ascend Mt. Lowe.

.50 Top of spur of Mt. Lowe 1000 ft. above canon, bears
north and south. Descend.

33.50 Trail to Mt. Lowe Hotel, bears south and northeast.
Pavilion at foot of incline railroad in Rubico Canon,
bears south 61° east about 20.00 chains dist.,

37.75 The true point for corner to sections 2, 3, 34 and 35
falling on side on steep southeast slope of Mt. Lowe,
not a suitable place to mark at this point, which is
4.00 chs. west of true point, I mark

a live oak tree 8 ins. dia. W C T 2 N S 35 S G F R on
northeast, R 12 W S 2 on southeast, T 1 N S 3 on southwest,
and S 34 on northwest sides, with 2 notches on east and
4 notches on west sides, for witness corner to secs. 2, 3,
34 and 35; dug pits 18 x 18 x 12 ins., in each section $5\frac{1}{2}$
ft. dist., and raised an earth mound around tree.

Continue descent.

41.75 The true point for corner to sections 2, 3, 34 and 35.
Land mountainous. Soil third rate. Scattering sycamore
and oak timber. Dense undergrowth of chaparral. Moun-
tainous land 80.00 chains.

East on a true line bet. secs. 2 and 35. Continue descent.

12.00 Incline Railroad from Mt. Lowe Hotel, to the Pavilion bears
northwest and southeast.

- 37.10 Foot of descent 700 ft. below section corner, bears north and south. Ascend abruptly.
- 40.00 The true point for quarter section corner falls on steep mountain side, impossible to mark, I therefore continue east.
- 59.15 Top of Grizzly Peak, bears north and south. Set a granite stone 24 x 17 x 11 ins., 18 ins. in the ground, for witness to quarter section corner, marked W C $\frac{1}{4}$ on north face and raised a stone mound, 1 $\frac{1}{2}$ ft. high, 2 ft. base north of corner.
- Pits impracticable. Descend.
- 70.60 The corner to secs. 1, 2, 35 and 36, not being a suitable place to make corner No. 20 on boundary of San Gabriel Forest Reservation, on account of the precipitous character of the land. I set at this point a square, hollow, iron post filled with cement, etc., 3 ft. long, the sides 4 ins. wide, at the top, increasing to 12 ins. at the bottom, 12 ins. in the ground, marked
S G F R 20 T 2 N S 36 on northeast,
R 12 W S 1 on southeast,
T 1 N S 2 on southwest, and
S 35 on northwest faces, for witness corner to corner 20, on boundary of San Gabriel Forest Reservation and raised a stone mound, 1 $\frac{1}{2}$ ft. high, 5 ft. base, around post. Pits impracticable. Along which I set a granite stone 16 x 10 x 9 ins., 11 ins. in the ground, marked W C
- 80.00 Set a granite stone 22 x 10 x 10 ins., 16 ins. in the ground for corner to sections 1, 2, 35 and 36, marked S G F R on north face, 1 notches on east and 5 notches

on west edges and raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner.

Pits impracticable. Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal and manzanita. Mountainous land, 80 chs.

September 12, 1896.

September 14: at 7h. A.M., l.m.t., I set off $34^{\circ}12'$ north on the lat.arc; $3^{\circ}06'$ north on the decl.arc; and determine a true meridian with the solar at the corner to sections 1, 2, 11, 12, previously described. It being impossible to chain the line between sections 1 and 2 I return to true point for corner to sections 1, 2, 11 and 12, and run west on offset line 20.85 chs. directly south of point of Grizzly Peak, on which I cause a flag to be set. I run south 13.00 chains thence a base east 11.20 chains, on account of the rough and precipitous nature of the ground, I find it impossible to measure a longer base as required by the manual to a point, from which the flag bears north $6^{\circ}47'$ west, giving by calculation a distance of 94.16 chains to flag, I chain back 13.00 chs. to offset line, making the distance from line between secs. 2 and 11 to line between secs. 2 and 35 on north boundary of township 81.16 chains.

For West qr.sec. corner between sections 1 and 2 see supplementary notes.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 81.16 chains.

- From the corner to sections 3, 4, 33 and 34, I run North $89^{\circ}39'$ west on a random line between sections 4 and 33.
- 40.37 To a point 53 lks. north of quarter section corner, where I found a portion of an old stone mound, but no other trace of corner. To re-establish same, I set a sandstone $20 \times 12 \times 10$ ins., 15 ins., in the ground marked $\frac{1}{4}$ on north face; dug pits $18 \times 18 \times 12$ ins., east and west of stone, 3 ft. dist., and raised a mound of earth, $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base, north of corner, I also marked stone S G F R on north face; thence I run North $89^{\circ}36'$ east on a true line bet. secs. 4 and 33. Descend.
- 2.97 Gulch, 20 lks. wide, course south 20° west. Ascend.
- 10.87 Top of spur, 200 ft. above quarter section corner, bears north and south. Descend.
- 15.27 Wagon road bears north and south.
- 31.97 Gulch 5 lks. wide, course south 10° west, 700 ft. below top of spur. Ascend.
- 34.27 Mouth of tunnel bears north 15 lks. dist.,
- 37.50 Shaft bears north 15 lks. dist.,
- 38.97 Top of spur, 200 ft. above gulch, bears north and south. Descend.
- 40.37 The corner to sections 3, 4, 33 and 34, in low sag between spurs, 100 ft. below top of spur. From the $\frac{1}{4}$ sec. cor. I continue north $89^{\circ}39'$ west.
- 40.00 To a point 77 lks. north of corner to sections 4, 5, 32 and 33 where I found a portion of an old post, lying on

the ground, some of the marks legible but no other trace of corner, to remark same, I set a granite stone 22 x 14 x 10 ins., 16 ins. in the ground, marked S G F R on north face; 4 notches on east and 2 notches on west edges; and raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, west of corner, pits impracticable. Thence

I run

North $89^{\circ}15'$ east on a true line bet. sections 4 and 33.

Ascend.

1.57 Top of spur bears north and south. Descend.

5.20 Gulch, 4 lks. wide, course south. Ascend.

7.67 Top of spur 250 ft. above section corner, bears north and south.

Descend.

14.67 Gulch, 25 lks. wide, 170 feet below top of spur, course south. Ascend.

21.37 Top of spur 400 ft. above gulch, bears north and south. Descend.

25.07 Gulch, 4 lks. wide, course south 20° west. Ascend.

27.17 Wagon road on top of spur, bears north and south. Descend.

32.37 Gulch, 10 lks. wide, course south and continue descent.

40.00 The $\frac{1}{4}$ sec. cor.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.37 chs.

September 14, 1896.

September 15, at 7h. A.M., l.m.t., I set off $34^{\circ}12'$ north on the lat.arc; $2^{\circ}43'$ north on the decl. arc; and determine a true meridian with the solar, at corner to sec-

tions 4, 5, 32 and 33, previously described.

From the corner to sections 4, 5, 32 and 33, I run North $89^{\circ}39'$ west on a random line between sections 5 and 32.

- 40.13 To a point 195 lks. south of quarter section corner, where I found traces of old earth mound and pits, but no post. To re-establish corner, I set a redwood post, 3 ft. long, 3 ins. square, 24 ins. in the ground, marked S G F R $\frac{1}{4}$ S on north face; from which bears
a live oak 8 ins. dia. north 4° east, 112 lks. dist.
marked S G F R $\frac{1}{4}$ S B T
a live oak 6 ins. dia. south $89^{\circ}\frac{1}{2}^{\circ}$ west 55 lks. dist.,
marked $\frac{1}{4}$ S B T

Thence I run

South $86^{\circ}52'$ east on a true line bet. secs. 5 and 32.

Descend.

- 3.03 Enter vineyard, bears north and south.
8.73 Leave vineyard, bears north and south.
11.03 Wagon road, bears north and south.
11.93 Wire fence, bears N. and S. about 20.00 chs.
21.73 A wire fence, bears north, east and south.
29.53 Gulch, 4 lks. wide, 300 feet below quarter section corner, course south. Ascend.
34.03 Top of spur, 170 ft. above gulch, bears north and south. Descend.
37.33 Gulch, 10 lks. wide, 100 ft. below top of spur, course south. Ascend.
? 4 .19 The corner to sections 4, 5, 32 and 33.

From the quarter section corner, I continue north $89^{\circ}39'$ west.

39.40 To a point 73 lks. south of corner to sections 5, 6, 31 and 32 where I found a badly decayed post, in stone mound, partly destroyed¹/₂ no bearing tree, as described in original notes. To re-establish corner, I set a sycamore post, 3 feet long, 4 ins. square, 24 ins. in the ground, marked S G F R T 2 N S 32 on northeast, R 12 W S 5 on southeast, T 1 N S 6 on southwest, and S 31 on northwest face; with 5 notches on east and 1 notch on west edges, from which bears

a live oak 4 ins. dia. south $22^{\circ}20'$ east, 21 lks. dist.

marked T 1 N R 12 W S 5 B T

a live oak 4 ins. dia. south $76\frac{3}{4}^{\circ}$ west, 15 lks. dist.,

marked T 1 N R 12 W S 6 B T

a sycamore 6 ins. dia. north $39^{\circ}34'$ west, 8 lks. dist.,

marked T 2 N R 12 W S 31 S G F R B T

No other tree within limits; raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high west of corner, pits impracticable. I destroy old corner. Thence I run

South $88^{\circ}35'$ east on a true line bet. secs. 5 and 32.

Through Arroyo Saco.

- 6.63 Stream, 2 lks. wide, course southeast.
- 9.43 Wagon road, in bed of arroyo, bears northwest and southeast.
- 19.53 Leave arroyo, bears northwest and southeast. Ascend.
- 22.03 A cluster of residences, bears north about 25.00 chs. dist.
- 24.43 Telephone line bears north, west and south, on mesa, 75 ft. above canon and over mesa.
- 26.03 Wagon road, bears north, west and south.

- 28.43 Wagon road bears north and south. Leave mesa and descend.
33.83 Stream, in bottom of Millard's Canon, 4 lks. wide, course south and across canon.
37.00 Leave canon and over broken land; descending.
39.41 The quarter section corner.
Land rough and broken. Soil third and first rate.
Timber of oak. Dense undergrowth of chamisal. Mountainous land. 79.53 chs.
-

- From the corner to sections 5, 6, 31 and 32, I run North $89^{\circ}39'$ west on a random line bet. secs. 6 and 31.
35.95 To a point 53 lks. north of quarter section corner, which was a decayed post, in a stone mound, in bad condition. I destroyed old corner and to remark same, set a granite stone $20 \times 12 \times 10$ ins., 15 ins. in the ground marked S G F R $\frac{1}{4}$ on north face; dug pits and raised a mound of earth $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base, north of corner, thence I run North $89^{\circ}30'$ east on a true line bet. secs. 6 and 31. Descend over rough washes.
3.95 Gulch 4 lks. wide, course north 60° west. Ascend.
11.95 Top of west bank of Arroyo Saco, course southeast and Descend into same.
35.95 The cor. to secs. 5, 6, 31 and 32. From the quarter section corner, I continue north $89^{\circ}39'$ west.
39.85 To a point 44 lks. south of corner to townships 1 and 2 north, ranges 12 and 13 west, where I found a portion of an old stone mound. To remark corner and to establish

corner No.22, on boundary of San Gabriel Forest Reservation, I set a square, hollow, iron post, filled with cement, 3 ft. long, the sides, 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked

S G F R 22

T 2 N S 31 on northeast,

R 12 W S 6 on southeast,

T 1 N S 1 on southwest, and R 13 W S 36 on northwest faces;

dug pits 36 x 36 x 12 ins., north and east of corner, 4 ft. distant and rebuild old mount of stone, with earth $1\frac{1}{2}$ ft. high, 5 ft. base around post. Thence I run

South $89^{\circ}01'$ east, on a true line bet. secs. 6 and 31.

Descend through field.

- 7.20 Wagon road, bears north, east and west.
- 10.40 Leave field, cross dry bed of stream, 10 lks. wide, course south and enter dense brush.
- 11.00 Same wagon road, bears northwest and southeast. Ascend.
- 24.50 Top of spur, 400 ft. above township corner, bears north and south. Descend.
- 35.00 Wagon road, bears northeast and southwest.
- 39.00 Gulch 4 lks. wide, 300 feet below top of spur, course southwest, and continue descent, over rough washes.
- 39.86 The quarter section corner,
- Land mountainous. Soil second and third rate. No timber.
- Dense undergrowth of chamisal. Mountainous land, 75.00 chs.
-

W.B.T. 2 N., R. 12 W., S.B.M.

September 16, 7h. A.M., 1.m.t., I set off $34^{\circ}12'$ north on the lat. arc; $2^{\circ}21'$ north on the decl. arc; and determine a true meridian with the solar at the corner to Tps. 1 and 2 N., Rs. 12 and 13 W., previously described.

From the corner to Tps. 1 and 2 north, Rs. 12 and 13 west, I run

North on a random line along boundary.

After diligent search, being unable to find any trace of old corner along line, I return to the corner to Tps. 1 and 2 North, Rs. 12 and 13 west and run

North on a true line bet. secs. 31 and ³⁶32, through plowed field.

- 14.00 Leave field, bears east and west. Ascend.
- 32.50 Top of spur, 100 ft. above township corner, bears east and west.
Descend.
- 34.50 Ravine 10 lks. wide, 50 ft. below top of spur, course east; Ascend.
- 39.00 Top of spur, 120 feet above ravine, bears east and west.
Descend.
- 40.00 Set a granite stone 20 x 8 x 4 ins., 15 ins. in the ground for quarter section corner, marked S G F R on east face and $\frac{1}{4}$ on west face and raised a mound of stone $1\frac{1}{2}$ ft. high 2 ft. base, west of corner, dug pits 18 x 18 x 12 ins., north. Corner set in low sag, 50 ft. below top of spur. Ascend.

- 43.50 Top of spur, 100 ft. above quarter section corner, bears north 80° east and south 80° west. Descend.
- 59.35 Ravine, 20 lks. wide, 200 feet below top of spur, course east. Ascend.
- 68.00 Top of spur, 300 ft. above ravine, bears east and west. Descend.
- 76.50 Canon, 15 lks. wide, 250 feet below top of spur, course east. Ascend.
- 79.00 Wagon road, bears east and west, on top of ascent, 75 ft. above canon. Descend.
- 80.00 Set granite stone 26 x 18 x 10 ins., 37 ins. in the ground, for corner to sections 25, 30, 31 and 36, marked with 1 notch on south and 5 notches on north edges; and raised a stone mound, 2 ft. base $1\frac{1}{2}$ ft. high, west of corner. Pits impracticable, stone also marked S G F R on east face. Land mountainous. Soil first and third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.00 chs.

See 80.925

- North on a true line bet. secs. 25 and 30. Descend.
- 7.00 Canon, 10 lks. wide, 300 feet below section corner, course north 70° east. Ascend.
- 12.00 Top of spur, 200 feet above canon, bears north 10° west and south 10° east. Descend.
- 16.50 Canon, 50 lks. wide, 175 feet below top of spur, course south 55° east. Ascend.
- 29.00 Old Soledad Road bears east and west.
- 40.00 Set a pine post, 4 ft. long, 4 ins. square, 24 ins. 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 pine 30 ins. dia. north $64\frac{3}{4}^{\circ}$ east, 28 lks. dist.,
marked S G F R $\frac{1}{4}$ S B T

No other tree within limits. Raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, west of corner. Pits impracticable.

47.00 Top of ridge, 700 feet above canon, bears E. and W.
Descend.

77.00 Ravine, 20 lks. wide, 500 feet below top of ridge, course east.
Ascend.

80.00 Top of spur, 300 feet above ravine, bears east and west.
Set a granite stone, 20 x 10 x 8 ins., 15 ins. in the ground, for corner to sections 19, 24, 25 and 30, marked S G F R on east face $\frac{1}{2}$ with 2 notches on south and 4 notches on north edges; raised a mound of stone $2\frac{1}{2}$ ft. high, 4 ft. base west of corner. Pits impracticable. Finding it impossible to convey iron post No. 23 to this point on account of rough mountains, I return to a point 61.00 chains south of this point and set a square, hollow iron post, filled with cement etc., 3 ft. long, the sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked S G F R 23, T 2 N S 19 on northeast, R 12 W S 30 on southeast, R 13 W S 25 on southwest and S 24 on northwest faces; dug pits 36 x 36 x 12 ins. east and west of post, 4 ft. dist. and raised an earth mound, $1\frac{1}{2}$ ft. high, 5 ft. base around post, alongside, which I set a sycamore post, 4 ft. long, 4 ins. square 24 ins. in the ground, marked W C 61.00 chs. on north face.

Land mountainous. Soil third rate. Scattering pine
and sycamore timber. Dense undergrowth of chaparral.
Mountainous land, 80.00 chains.

September 16, 1896.

September 17, at 7h. Om., A.M., l.m.t., I set off °14' ?
north on the lat. arc; and determine a true meridian
with the solar at the corner to sections 19, 24, 25 and
30, previously described.

From the corner to sections 19, 24, 25, 30, I run
North on a true line bet. sections 19 and 24.

Descend through dense chaparral.

- 9.00 Old Soledad Road, bears east and west.
- 14.00 Ravine 10 lks. wide, 600 feet below section corner, course
east, ascend.
- 18.50 Top of spur, 200 feet. above ravine, bears east and west.
Descend.
- 40.00 Set a granite stone 25 x 18 x 9 ins. 19 ins. in the
ground for quarter section corner, marked S G F R $\frac{1}{4}$ on west
face; and raised a stone mound $1\frac{1}{2}$ ft. high, 2 ft. base
west of corner. Pits impracticable. Corner set in low
sag, 400 feet below top of spur, bears east and west.
Ascend.
- 47.00 Top of ridge, 300 ft. above quarter section corner, bears
east and west. Descend.
- 65.00 Canon, 40 lks. wide, 600 feet below top of ridge, course
east.
Ascend.

- 73.00 Top of spur, bears east and west, 450 ft. above canon.
Descend.
- 78.00 Canon 20 lks. wide, 200 feet below top of spur, course
south 70° east. Ascend.
- 80.00 Set a granite stone, 22 x 12 x 8 ins., 16 ins. 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 stone mound 4 ft. base 2½ ft. high
west of corner.
- Pits impracticable.
- Land mountainous. Soil third rate. No timber. Dense
undergrowth of chaparral. Mountainous land, 80.00 chains.
-

- North on a true line between sections 13 and 18. Ascend.
- 19.00 Top of ridge, bears north 80° west, and south 80° east,
800 ft. above last canon. It being impossible to chain
further north, on account of precipitous mountains at
this point, I set a square, hollow iron post, filled with
cement, etc., 3 ft. long, the sides 4 ins. wide, at the
top, increasing to 12 ins. wide at the bottom, 12 ins. in
the ground for witness corner to corner No. 24 on boundary
of San Gabriel Forest Reservation, marked S G F R 24
T 2 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; dug pits 36 x 36 x 12 ins.,
east and west of post, 4 ft. dist. and raised a mound of
earth 1½ ft. high, 5 ft. base around post, alongside

which I set a pine post, 4 ft. long, 4 ins. square, 24 ins. in the ground, marked W C 19.00 chs. on south face. To obtain the distance to the corner to sections 7, 12, 13 and 18, I cause a flag to be set on a high peak, to the north of this point. From W C to corner No. 24, I run a base west 3.83 chains on account of the rough and precipitous nature of the ground; I find it impossible to measure a longer base as required by the manual, from the west end of which, the flag bears north $3^{\circ}08'$ east, giving by calculation, a distance of 69.97 chs. to the flag, and a total distance from corner to sections 13, 18, 19 and 24 of $69.97 + 19.00$ chains. = 88.97 chains. From this point, I chain due south 8.97 chains to a point 80.00 chains due north of corner to sections 13, 18, 19 and 24, and set a granite stone, 20 x 8 x 8 ins., 15 ins. in the ground for corner to sections 7, 12, 13 and 18, marked S G F R with 4 notches on south and 2 notches on north edges; and raised a stone mound, 2 ft. high, $3\frac{1}{2}$ ft. base, west of corner. Pits impracticable. Corner set at top of water fall, 75 ft. high. Land mountainous. Soil third rate. Dense undergrowth of chaparral. Mountainous land, 80.00 chains.

September 11, 1896.

At the corner to sections 7, 12, 13 and 18 in the latitude $34^{\circ}16'$ north, long. $117^{\circ}12'$ west, at 7h. 39m. P.M., I observe Polaris at eastern elongation and mark the line thus determined by a tack driven in a wooden plug, set firmly

in the ground, 5.00 chains north of my station.

September 18, at 6h. 30m. A.M. l.m.t., I lay off the azimuth of Polaris $1^{\circ}30.05'$ 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, the mean mag. decl. $15^{\circ}00'$ east, at 7h.0m. l.m.t., I set off $34^{\circ}16'$ north on the lat. arc; $1^{\circ}34'$ north on the decl. arc; and determined the true meridian with the solar at the corner to sections 9, 10, 15 and 16, described on this page. It being impossible to chain west from the corner to sections 7, 12, 13 and 18, I cause a flag to be set on top of divide between the Arroyo Saco and Tujunga Canons. I now go to a point 19.00 chains north of corner to sections 13, 18, 19 and 24, from which flag on divide bears north $70^{\circ}40'$ west, base 61.00 chains, angle $19^{\circ}20' = 2$ miles 13.85 chains. to top of divide, 6000 feet high, bears northwest and southeast, counting distance from corner to sections 10, 11, 14 and 15, 13.85 chains west.

40.00 Set temporary quarter section corner.

81.20 To a point 65 lks. north of corner to sections 9, 10, 15 and 16, where I found a portion of an old stone mound but not other trace of corner, and to remark, I set a granite stone 22 x 12 x 10 ins., 16 ins. in the ground, marked S G F R with 4 notches on south and 3 notches on east edges; and raised a mound of stone 2 ft. high, $4\frac{1}{2}$ ft. base, west of corner. Pits impracticable. Owing to

the mountainous character of the land, I find it impossible to convey iron post No.25 for corner on boundary of Reservation. Thence I run South $89^{\circ}51'$ east on a true line bet. secs. 10 and 15. Ascend.

- 12.20 Top of spur, bears north and south, and descend.
- 22.25 Cross canon, 10 lks. wide, course south 20° east and ascend.
- 40.20 The point for quarter section corner falls on granite boulder in place $6 \times 3 \times 3$ ft. above ground on which I cut a cross (X) at the exact corner point for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N. side of cross and raised a mound of stone, $1\frac{1}{2}$ ft. high, 2 ft. base, north of corner. Pits impracticable.
- 66.55 To triangulation point.
- Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral.

- West on a random line bet. sections 9 and 16.
- 40.00 After diligent search being unable to find any trace of quarter section corner, I set temporary quarter section corner and continue west.
- 80.45 To a point 25 lks. south of corner to sections 8, 9, 16 and 17, where I found traces of old mound and pits, the post and bearing tree having been destroyed by fire. To remark corner I set a sandstone, $20 \times 10 \times 8$ ins.; 15 ins. in the ground, marked S G F R on north face with 4 notches on south and east edges and raised a mound of

- stone, 2 ft. high, $3\frac{1}{2}$ ft. base west of corner. Pits impracticable. Thence I run South $89^{\circ}49'$ east on a true line bet. secs. 9 and 16.
- Descend.
- 2.75 Cross gulch, 4 lks. wide, 90 ft. below section corner, course south. Ascend.
- 12.95 Top of ridge, 700 feet above gulch, bears south and northeast and along same.
- 17.95 Top of same ridge, bears north and southeast.
- 21.45 Top of same ridge, bears south and northeast. Descend.
- 28.45 Head of gulch, 5 lks. wide, course southwest, 300 feet below top of ridge. Ascend.
- 32.15 Top of spur, 200 feet above gulch, bears north and southwest.
- Descend.
- 40.22 $\frac{1}{2}$ Set a sandstone $36 \times 16 \times 12$ ins., 27 ins., in the ground for quarter section corner, marked S G F R $\frac{1}{4}$ on north face; and raised a stone mound $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base north of corner. Pits impracticable.
- 43.45 Head of Dunsmore Canon, course south 500 feet below top of spur.
- Ascend.
- 54.05 Top of ridge, 300 feet above canon, bears northwest and southeast and along same.
- 74.45 Top of same ridge, bears northeast and southwest.
- Descend.
- 77.45 Head of Pecking Canon, course south. 100 feet below top of ridge. Ascend.
- 80.45 The corner to sections 9, 10, 15 and 16.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.45 chains.

From the corner to sections 8, 9, 16 and 17, I run west on a random line between sections 8 and 17.

40.00 After diligent search, failing to find old quarter section corner, I set temporary quarter section corner and continue west.

80.16 After diligent search failing to find old corner to sections 7, 8, 17 and 18, I set temporary section corner and run south $89^{\circ}43'$ west on a random line bet. sections 7 and 18.

40.36 To old quarter section corner where I found a portion of an old earth mound, but no other trace of corner. To remark cor. I set a sandstone $20 \times 8 \times 8$ ins., 15 ins. in the ground, marked S G F R $\frac{1}{4}$ on north face; from which bears
a live oak 10 ins. dia. north 22° east, 40 lks.dist.,
which I marked $\frac{1}{4}$ S B T
a sycamore, 4 ins. dia. south $24\frac{1}{2}^{\circ}$ west, 26 lks.dist.,
which I marked $\frac{1}{4}$ S B T

Thence I run North $89^{\circ}43'$ east on a true line bet. secs. 7 and 18.

Descend.

4.36 Gulch, 5 lks. wide, 200 feet below quarter section corner, course south.

Ascend.

16.16 Top of spur, 400 ft. above gulch, bears north and south.
Descend.

- 24.36 Gulch 10 lks. wide, with running water 2 lks. wide, course south 200 feet below top of spur.
Ascend.
- 33.36 Top of spur, bears northwest and southeast, 150 ft. above gulch.
Descend.
- 36.36 Head of gulch, course northwest, 100 feet below top of spur.
Ascend.
- 40.12 Set a sandstone, 26 x 20 x 12 ins., 19 ins. in the ground for corner to sections 7, 8, 17 and 18, marked S G F R on north face with 4 notches on south and 5 notches on east edges; and raised a stone mound, 2 ft. high, $4\frac{1}{2}$ ft. base west of corner.
Pits impracticable.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 40.36 chains.

September 18, 1896.

September 19, at 7h.00m. A.M., l.m.t., I set off $34^{\circ}16'$ north on the lat.arc; $1^{\circ}11'$ north, on the decl. arc; and determine a true meridian with the solar at the corner to sections 7, 8, 17 and 18, just set by me.
East on a true line between sections 8 and 17.
Ascend.

4.66 Summit of ridge, 300 feet above last gulch, bears northeast and southwest.
Descend.

- 29.66 Gulch 8 lks. wide, 700 ft. below top of ridge, course
S. Ascend.
- 39.46 Trail, on top of spur, 500 feet above gulch, bears north-
east and southwest.
Descend.
- 40.20 Set a sandstone 20 x 10 x 10 ins., 15 ins. in the ground
for quarter section corner, marked S G F R $\frac{1}{4}$ on north
face; dug pits, 18 x 18 x 12 ins., east and west of
stone, 3 ft. dist. and raised an earth mound $1\frac{1}{2}$ ft. high,
 $3\frac{1}{2}$ ft. base north of corner from which bears Hayne's
house and field south 10° west about 8.00 chains distant.
- 54.16 Bottom of Hayne's Canon, 50 lks. wide, with stream 3 lks.
wide, 500 feet below top of spur, course southwest.
Ascend.
- 55.66 Set a square, hollow iron post, filled with cement, etc.,
3 ft. long with sides 4 ins. wide, at the top, increasing
to 12 ins. wide at the bottom, 12 ins. in the ground for
witness corner to corner to No.25 on boundary of San
Gabriel Forest Reservation, marked
S G F R 25 T 2 N S 10 on northeast,
R 13 W S 15 on southeast,
S 16 on southwest and
S 9 on northwest faces; dug pits 36 x 36 x 12 ins., north
and south of post, 4 ft. dist. and raised a mound of earth,
 $1\frac{1}{2}$ ft. high, 5 ft. base around post, alongside which set
a granite stone 30 x 23 x 11 ins., 21 ins. in the ground,
marked W C 104.65 chains on east face,
- 72.16 Top of spur, 100 ft. above canon, bears northeast and south-
west.
Descend.

- 74.66 Gulch, 5 lks. wide, 90 ft. below top of spur, course south.
Ascend.
- 79.66 Top of spur 250 feet above gulch, bears north and south.
Descend.
- 80.40 The corner to sections 8, 9, 16 and 17.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chamisal. Mountainous land, 80.16 chs.

- From the quarter section cor. bet. secs. 7 and 18 I run South $89^{\circ}43'$ west on a random line bet. secs. 7 and 18.
- 38.84 To a point 37 lks. south of corner to secs. 7, 12, 13 and 18, on west boundary of township, where I found an old stone mound, from which bears
a live oak 14 ins. dia. north 19° east, 58 lks. dist.,
marked T 2 N R 13 W S 7 B T
- I further marked tree S G F R 26 on northeast side and to reestablish corner and to mark corner No. 26 on boundary of San Gabriel Forest Reservation, I set a square, hollow iron post, filled with cement etc., 3 ft. long, with sides 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked
S G F R 26 T 2 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; and rebuilt mound
of stone, $1\frac{1}{2}$ ft. high, 5 ft. base, around post. Pits impracticable, from which bears
a sycamore, 7 ins. north 15° west, 76 lks. dist.,
which I marked T 2 N R 14 W S 12 B T

Thence I run South $89^{\circ}44'$ east on a true line bet. secs.
7 and 18.

Ascend.

5.00 Wagon road, bears northeast and southwest.

7.20 Top of spur, 200 ft. above section corner, bears N.E.
and S.W.

a house and field bear north 18° east, about 20 chs.dist.

Descend.

10.20 Wagon road, bears east and west.

15.20 Gulch, 100 lks. wide, 190 ft. below top of spur, course
south.

Ascend.

25.20 Top of spur 400 ft. above gulch, bears N.W. and S.E.

Descend.

36.20 Same gulch, 20 lks. wide, 250 ft. below top of spur, course
N.W. and continue descent.

38.84 The $\frac{1}{4}$ sec. cor.

Land mountainous. Soil third rate. Scattering oak and
sycamore timber. Dense undergrowth of chaparral. Mountain-
ous land 38.84.

From the corner to sections 7, 12, 13, 18, I run
North on a random line bet. secs. 7 and 12.

40.00 After diligent search, being unable to find any trace of
old quarter section corner, I set temporary quarter sec.cor.
and continue north.

63.40 To a point 2.12 chs. west of clos. cor. to secs. 1 and 12,
where I found a decayed post, in a stone mound, I destroyed
post and to remark cor. and establish corner No.27, on

boundary of S. G. F. R. I set a square hollow iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked C C T 2 N R 14 W on west, S G F R 27 S 1 on north and S 12 on south faces, and rebuilt stone mound, $1\frac{1}{2}$ ft. high, 5 ft. base, around post. Pits impracticable. Destroyed old mound. Found no trace of bearing tree. Thence I run South $1^{\circ}55'$ west on a true line bet. secs. 7 and 12. Descend.

2.10 Gulch, 10 lks. wide, course N. 21° W. 40 ft. below cor. Ascend.

10.00 Top of flat spur, 400 ft. above canon, bears northeast and southwest and along same.

12.00 Descend.

15.75 Canon, 25 lks. wide, 100 feet below top of spur, course south 60° west. Ascend.

23.05 Top of spur, 300 ft. above canon, bears north 60° west and south 60° east, set a granite stone, 20 x 8 x 4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on west face; S G F R on east face, and raised a mound of stone, $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base west of corner. Pits impracticable. Descend.

25.20 Gulch 10 lks. wide, 300 feet below quarter section corner, course north 61° west. Ascend.

26.50 Edge of bluff, bears east and west. Mrs. Johnson's house bears north 53° west, 16 chs. dist. Descend.

- 37.00 Ravine, 5 lks. wide, course west.
Ascend.
- 39.50 Enter mesa, bears east and west. Leave mesa, bears east and west.
Descend.
- 57.00 Dry creek, 20 lks. wide, course southeast.
Ascend.
- 63.44 The corner to secs. 7, 12, 13, 18.
Land broken and mountainous. Soil third rate. No timber.
Dense undergrowth of chaparral. Mountainous land,
82.50 chs.

September 19, 1896.

Through T. 2 N., R. 14 W., S.B.M.

- September 21, at 7h. 00m. A.M., l.m.t., I set off $34^{\circ}16'$ on the lat. arc; $0^{\circ}24'$ north on the decl. arc; and determine a true meridian with the solar, at the closing corner to sections 1, and 12 and corner No.27 on boundary of San Gabriel Forest Reservation. Thence I run West on a random line bet. secs. 1 and 12.
- 40.10 To a point 10 lks. south of old quarter section corner where I found a portion of stone mound, but no other trace of corner. I destroy same and to rebuild corner set sandstone, $18 \times 12 \times 6$ ins., 12 ins. in the ground, marked S G F R $\frac{1}{4}$ on north face; and raised a stone mound, 2 ft. base, $1\frac{1}{2}$ ft. high, north of corner. Pits impracticable. Thence I run South $89^{\circ}51'$ east on a true line bet. secs. 1 and 12.
Descend.

- 4.70 Stream of running water, 15 lks. wide, 10 ft. below quarter section corner, course southwest, continue descent.
- 9.95 Tujunga Creek, 30 lks. wide, course southwest. Ascend.
- 10.74 Wagon road, bears northeast and southwest.
- 16.95 A house, bears north $28\frac{1}{2}^{\circ}$ east, about 10.00 chains dist.
- 36.20 Top of spur, 80 ft. above creek, bears north and south. Descend.
- 38.25 Gulch 15 lks. wide, 50 ft. below top of spur, course north 15° west. Ascend.
- 40.10 The closing corner to sections 1 and 12. From the quarter section corner, I continue west.
- 23.63 Intersect boundary line of Ro. Tujunga, 17.76 chains south $11^{\circ}02'$ east, from corner to No. 8 on said boundary, which is a redwood post, set firmly in the ground, marked and witnessed as described by the Surveyor General and set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, for corner No. 28 on boundary of San Gabriel Forest Reservation, marked
- S G F R 28 T 2 N S 1 on northeast,
R 14 W S 12 on southeast,
R T on southwest face; dug pits 36 x 36 x 12 ins. north and south of post, 4 ft. dist. and raised a mound of earth 1 ft. high, 5 ft. base around post; found no trace of old corner at this point. Thence east on a true line

- bet. secs. 1 and 12. Over washed land, covered with brush, descending.
- 16.58 West branch of Tujunga Creek, 15 lks. wide, course south, continue descent.
- 18.08 Stream of water, 10 lks. wide, 10 ft. below west branch, course southwest, continue descent.
- 23.63 To quarter section corner between sections 1 and 12. Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 23.63 chs.

- From corner No.28 on boundary line of San Gabriel Forest Reservation, I run
- North $11^{\circ}02'$ west on a random line along boundary.
- 17.76 To a point 12 lks. east of corner No.8 on boundary of Ro. Tujunga, which I destroyed and in its place, to mark same corner, also corner No.29 on boundary of San Gabriel Forest Reservation, set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked
- S G F R 29 on north and R T on southwest faces; dug pits 36 x 36 x 12 ins., north and south of post, 4 ft. dist., and raised a mound of earth, 1 ft. high, 5 ft. base, around post.
- Thence I run South $11^{\circ}25'$ east on a true line along boundary. Descend through dense chaparral.
- 9.26 Enter flat, bears east and west and leave chaparral.
- 12.96 Enter alfalfa field, bears northwest and southeast.

16.51 Leave alfalfa field, bears northwest and southeast and continue over flat.

17.78 To corner No.28 on boundary line of San Gabriel Forest Reservation.

Land mountainous and level. Soil second and third rate.

No timber. Dense undergrowth of chaparral, 9.26 chs.

Mountainous land, 9.26 chs.

From corner No.29 on boundary line of San Gabriel Forest Reservation, I run

South $57^{\circ}41'$ west on a random line along boundary.

33.00 To old closing corner to sections 2 and 11 on boundary line of Tujunga Ro., where I found a stone mound in bad condition, which I destroyed. To remark this corner, also to establish corner No.30 on boundary of San Gabriel Forest Reservation, I set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked

S G F R 30 T 2 N S 2 on northwest,

R 14 W S 11 on southwest and

R T on east faces; dug pits 36 x 36 x 12 ins., east and west of post, 4 ft. dist., and raised an earth mound,

1 ft. high, 5 ft. base, around post, thence I run

North $57^{\circ}41'$ east on a true line along boundary.

Ascend.

6.50 Top of spur, 100 ft. above corner, bears north and south. Descend.

- 12.70 Wash, 50 lks. wide, 75 ft. below top of spur, course S.E.
Ascend.
- 13.20 Wagon road, bears northwest and southeast.
- 25.00 Top of ridge, 120 ft. above wash, bears north 60° west and
south 60° east. A cabin, bears north 65° west about 8.00
chs. distant.
Descend.
- 31.70 Gulch, 5 lks. wide, 100 ft. below top of spur, course south.
Ascend.
- 33.00 To corner No.29 on boundary line.
Land mountainous. Soil third rate. No timber. Dense
undergrowth of chaparral. Mountainous land, 33.00 chs.

- From corner No.30 on Reservation boundary, I run
North 89°53' west on a random line bet. sections 2 and 11.
- 25.01 To a point 11 lks. north of old qu. sec. cor., which is
portion of a burned post, in stone mound, which is partly
destroyed. I obliterate old corner and in its place set
a granite stone, 22 x 12 x 8 ins., 16 ins. in the ground,
marked S G F R $\frac{1}{4}$ on north face; and raised a stone mound,
2 ft. base, 1½ ft. high north of corner. Pits impracti-
cable. Thence I run
North 89°52' east on a true line bet. secs. 2 and 11.
Ascend.
- .56 Top of ridge, bears north 20° west and south 20° east.
Descend.
- 6.96 Road, bears north 20° west and south 20° east.
- 11.46 Wash, 60 lks. wide, 150 ft. below top of ridge, course
south 20° east. Ascend.

- 25.01 The corner No.30 on Reservation boundary.
From the quarter section corner, I continue North $89^{\circ}53'$ west.
- 40.74 To a point 7 lks. north of cor. to secs. 2, 3, 10 and 11, where I found a post in bad condition, in a portion of a stone mound. I destroyed same and to re-establish old corner, also to establish corner No.31 on boundary of San Gabriel Forest Reservation, I set a square hollow iron post, filled with cement, etc., 3 ft. long, with sides 4 ins. wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked
S G F R 31 T 2 N S 2 on northeast,
R 14 W S 11 on southeast,
S 10 on southwest and
S 3 on northwest faces and raised a stone mound, 1 ft. high $4\frac{1}{2}$ ft. base, around post. Pits impracticable. Thence I run south $89^{\circ}59'$ east on a true line bet. secs. 2 and 11. Ascend.
- 2.10 Top of ridge, 50 ft. above corner, bears north and south. Descend.
- 11.75 Wash 20 lks. wide, 300 ft. below top of ridge, course south. Ascend.
- 19.25 Top of spur, 110 feet above wash, bears north and south. Descend.
- 24.25 Gulch, 20 lks. wide, 100 ft. below top of spur, course south. Ascend.
- 40.74 The quarter section corner.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 65.75 chs.
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- From the corner to sections 2, 3, 10 and 11, I run
 South $89^{\circ}51'$ west on a random line bet. secs. 3 and 10.
- 35.00 To old quarter section corner which is a sycamore post,
 set firmly in the ground, marked and witnessed as de-
 scribed by the Surveyor General and which I further mark
 S G F R on north face, thence North $89^{\circ}51'$ east on a
 true line bet. secs. 3 and 10.
 Descend.
- 7.85 Gulch 10 lks. wide, 100 ft. below corner, course south.
 Ascend.
- 19.00 Top of spur, 300 ft. above gulch, bears north and south.
 Descend.
- 22.00 Gulch, 10 lks. wide, 200 ft. below top of spur, course
 south.
 Ascend.
- 35.00 The corner to sections 2, 3, 10 and 11.
 From the quarter section corner, I continue
 South $89^{\circ}51'$ west.
- 43.83 To a point 26 lks. south of old witness corner to sections
 3, 4, 9 and 10, set 40 lks. east of true point for said
 cor. which is an oak post, set firmly in the ground, marked
 and witnessed as described by the Surveyor General and
 which I further marked S G F R on northeast face. Thence
 I run
 South $89^{\circ}49'$ east on a true line between sections 3 and 10.
 Counting distances from true corner to sections 3, 4, 9
 and 10, descend.
- 3.18 Gulch, 10 lks. wide, course southeast.
 Ascend.
- 5.90 Top of spur, 100 ft. above gulch, bears northwest and south-
 east. Descend.

- 13.51 Gulch 15 lks. wide, course south 90 ft. below top of spur.
Ascend.
- 30.43 Top of spur, 500 ft. above gulch, bears northeast and southwest.
Descend.
- 38.43 Gulch, 15 lks. wide, course south 300 ft. below top of spur, continue descent.
- 43.43 The quarter section corner, on top of spur, bears north and south.
Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 78.83 chs.
September 21, 1896.

- September 22: at 7h. 00m. A.M. l.m.t., I set off $34^{\circ}17'$ north on the lat. arc; $0^{\circ}1'$ north on the decl. arc; and determine a true meridian with the solar at the true point for cor. to sections 3, 4, 9 and 10, I run North $89^{\circ}47'$ west on a random line bet. secs. 4 and 9.
- 40.41 To old quarter section corner, which is an oak post set firmly in the ground, marked and witnessed as described by the Surveyor General, which I further marked S G F R on north face,
Thence I run South $89^{\circ}47'$ east on a true line bet. sections 4 and 9.
Ascend.
- 5.00 Top of spur, 100 ft. above corner, bears north and south.
Descend.
- 7.16 Gulch, 8 lks. wide, 75 ft. below top of spur, course south.
Ascend.

- 13.91 Top of spur, 150 ft. above gulch, bears north and south.
Descend.
- 24.46 Gulch, 15 lks. wide, 300 ft. below top of spur, course south.
Ascend.
- 35.41 Top of spur, 200 ft. above gulch, bears north 30° east and south 30° west.
Descend.
- 40.14 The true point for corner to secs. 3, 4, 9 and 10.
From the quarter section corner, I continue North $89^{\circ}47'$ west.
- 39.94 To a point 12 lks. south of corner to sections 4, 5, 8 and 9, where I found a portion of an old post, in a stone mound, I destroyed same and to remark corner, also to establish corner No. 32 on boundary of San Gabriel Forest Reservation, I set a square, hollow, iron post, filled with cement, etc., 3 ft. long, with sides 4 ins., wide at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked
S G F R 32 T 2 N S 4 on northeast,
R 14 W S 9 on southeast,
S 8 on southwest and
S 5 on northwest faces, dug pits 36 x 36 x 12 ins., north and south of post, 4 ft. dist., and raised a mound of earth, 1 ft. high, 5 ft. base, around post; thence I run South $89^{\circ}37'$ east on a true line bet. secs. 4 and 9.
Along north edge of cultivated ground, descending.
- 14.87 Creek, 75 lks. wide, course south.
Ascend.
- 21.35 Top of spur, bears north 30° east and south 30° west,

200 ft. above creek.

Descend.

34.80 Gulch, 15 lks. wide, 175 ft. below top of spur, course south.

Ascend.

39.94 The quarter section corner.

Land mountainous. Soil third rate. No timber. Dense undergrowth of chaparral. Mountainous land, 80.35 chains.

From the corner to sections 4, 5, 8 and 9, I run

North on a random line bet. sections 4 and 5.

40.46 To a point 48 lks. west of quarter section corner, where I found a portion of an old post; from which bears
an elder 4 ins. dia. north $82\frac{3}{4}^{\circ}$ west 197 lks. dist.,
marked $\frac{1}{4}$ S B T

I further marked tree S G F R on north face. I destroyed old post and in its place set a post, 3 ft. long, 3 ins. square, 24 ins. in the ground, marked S G F R $\frac{1}{4}$ S on north face, and raised a stone mound, 2 ft. base, $1\frac{1}{2}$ ft. high, north of corner. Pits impracticable. No other tree within limits. Thence I run South $0^{\circ}41'$ west on a true line bet. secs. 4 and 5.

Ascend.

11.46 Top of ridge, 300 ft. above corner, bears west and southeast.
Descend.

12.46 Fence, bears east and west.

40.46 The corner to sections 4, 5, 8 and 9.

From the quarter section corner, I continue north.

39.61 To a point 65 lks. west of corner to sections 4, 5, 32 and

33, the locus of which I determine from the bearing trees, which I found standing and marked as described by the Surveyor General. To remark corner and to establish corner No. 33, on Reservation boundary, I set a square, hollow, iron post, filled with cement, etc., 3 ft. long, 4 ins. wide, at the top, increasing to 12 ins. wide at the bottom, 12 ins. in the ground, marked

S G F R 33 T 3 N S 33 on northeast,

R 14 W S 4 on southeast,

T 2 N S 5 on southwest and

S 32 on northwest faces, and raised a stone mound, 5 ft.

base, 1 foot high, around post. Pits impracticable.

Thence I run South $0^{\circ}56'$ west on a true line bet. secs.

4 and 5.

Descend.

2.67 Little Tujunga Creek, 300 lks. wide, course west. Ascend.

4.24 Fence, bears east and west.

4.32 Road, bears east and west.

23.77 Top of spur, 400 ft. above creek, bears northwest and southeast.

Descend.

31.04 Gulch, 15 lks. wide, 200 ft. below top of spur, course northwest.

Ascend.

39.61 The quarter section corner.

Land mountainous. Soil third rate. Sycamore timber along creek. Undergrowth of chaparral. Mountainous land, 80.07 chs.

From the corner to sections 4, 5, 32 and 33, I run

West on a random line bet. secs. 5 and 32.

- 40.12 To old quarter section corner, which is a post, set firmly in the ground, marked and witnessed as described by the Surveyor General. I further marked bearing tree and post S G F R on north face. Thence I run East on a true line bet. secs. 5 and 32. Ascend.
- 10.12 Top of ridge, 100 ft. above corner, bears north and south. Descend.
- 22.42 Gulch, 10 lks. wide, 150 ft. below top of ridge, course south. Ascend.
- 28.12 Top of spur, 100 ft. above gulch, bears north and south. Descend.
- 33.62 Creek, 100 lks. wide, 200 ft. below top of spur, course south. Ascend.
- 40.12 The corner to sections 4, 5, 32 and 33. From the quarter sec. cor., I continue west.
- 39.78 To old corner to sections 5, 6, 31 and 32, which is a post, set firmly in the ground, in a stone mound, marked and witnessed as described by the Surveyor General. I further marked bearing tree and post on northeast face, S G F R Thence I run East on a true line bet. secs. 5 and 32. Over flat.
- 1.30 Stream 3 lks. wide, course south, leave flat. Ascend.
- 1.70 Road, bears north and southeast.
- 4.60 Top of spur, 50 ft. above stream, bears north and south. Descend.
- 9.70 Dry wash, 20 lks. wide, 75 ft. below top of spur, course southwest. Ascend.
- 24.20 Fence on top of ridge, 200 ft. above wash, bears northwest and southeast.

Descend.

37.20 Dry wash, 15 lks. wide, 100 ft. below top of spur, course south.

Ascend.

39.78 The quarter section corner.

Land mountainous. Soil third rate. Timber of oak and sycamore. Undergrowth of chaparral. Mountainous land, 79.90 chs.

From the cor. to secs. 5, 6, 31 and 32, I run

West on a random line bet. secs. 6 and 31.

41.18 To old witness corner to quarter section corner, which is a post, set firmly in the ground, marked and witnessed as described by the Surveyor General. I further marked post S G F R on north face. Thence I run

East on a true line bet. sections 6 and 31. Descend.

3.83 Top of spur, 100 ft. above gulch, bears northeast and southwest.

Descend.

7.03 Gulch, 10 lks. wide, 100 ft. below top of spur, course south.

Ascend.

10.83 Top of ridge, 200 ft. above gulch, bears north and south. Descend.

17.83 Gulch 8 lks. wide, 200 ft. below top of ridge, course south. Ascend.

25.33 Top of ridge, 160 ft. above gulch, bears north and south. Descend.

37.83 Enter flat, bears north and south. Fence, bears north 80° E. and south 80° W.

- 39.83 The corner to sections 5, 6, 31 and 32.
From the true point for quarter section corner, 1.35 chs.
east of witness corner, I run
West on a random line bet. secs. 6 and 31.
- 46.77 To a point 3 lks. 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 re-establish same
and to mark corner No. 34 on Reservation boundary, I set a
square, hollow iron post, 3 ft. long, with sides 4 ins.
wide at the top, increasing to 12 ins. wide at the bottom,
12 ins. 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
R 15 W S 36 on northwest faces; and rebuilt stone mound,
1 ft. high, 5 ft. base, around post. Pits impracticable.
Alongside which I set a post, 3 ft. long, 3 ins. square,
24 ins. in the ground, marked W C on east face; and raised
a stone mound, 2 ft. base, 1½ ft. high, around post. Pits
impracticable. Thence I run
North 89° 58' east on a true line bet. secs. 6 and 31.
Counting distances from true township corner. Descend abruptly.
- 3.00 Top of spur, bears north and south.
Descend.
- 3.60 Gulch, 10 lks. wide, course south 40° west.
Ascend.