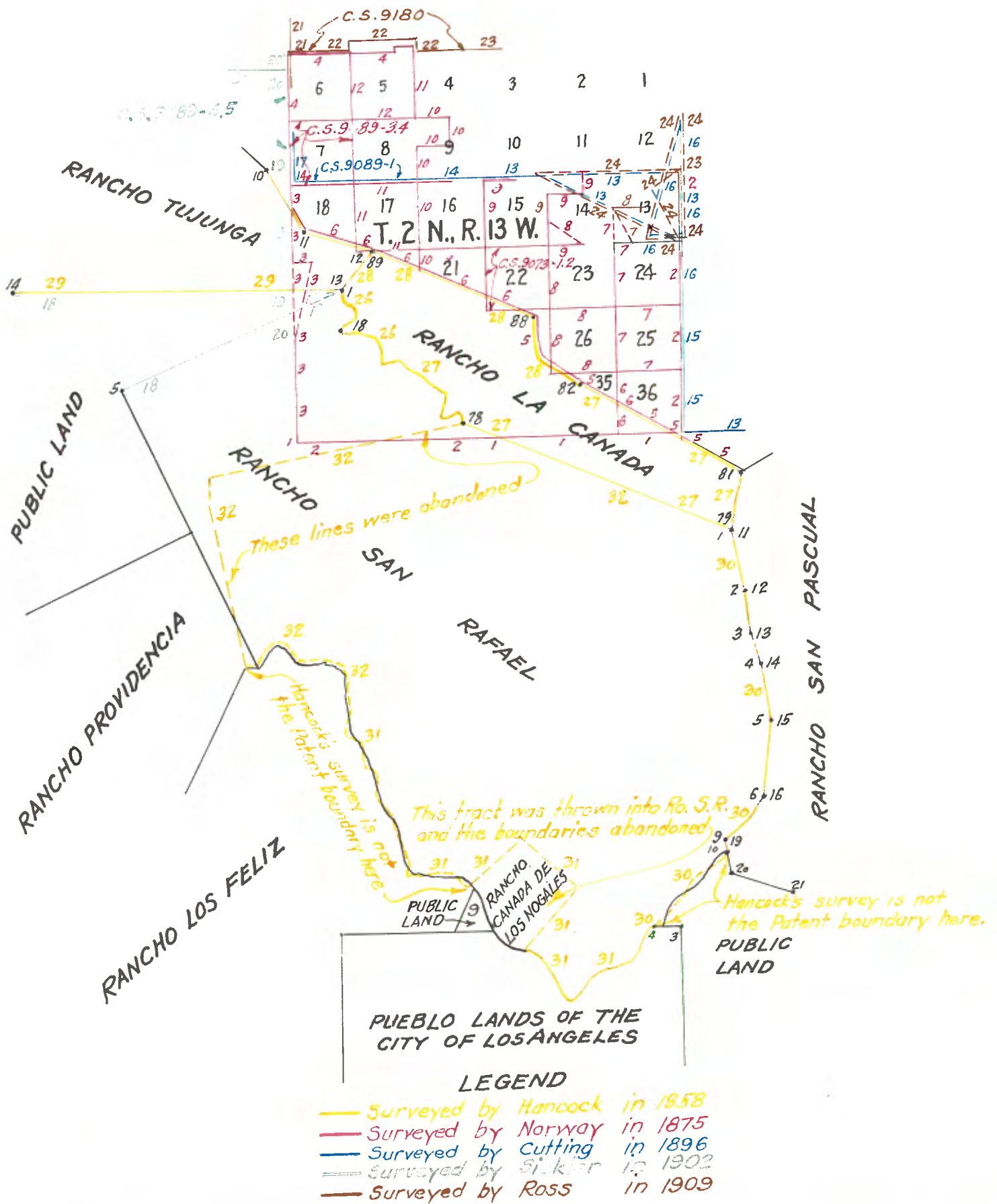


FIELD NOTES

T. 2 N., R. 13 W., S. 3. E.

and

Rancho San Rafael (Hancock).



80 00 EAST on NORTH boundary of Section 1. Var. 14 1/4° E
Set Post 4 x 4 ins. ~~3 1/2~~ 3 1/2 ft. long in large rock mound, as per instructions, for corner to Tps. 1 and 2 N. Rs 13 and 14 W.
Land rolling hills, Soil 1st and 2nd rate.

T 1 N, R 13 W, S. B. M.

NORTH on EAST boundary of Section 1. Var. 14 1/4° E.

80 00 Set oak post 4 x 4 ins. 3 1/2 ft. long in rock mound, as per instructions for corner to Tps. 1 and 2 N., Rs 12 and 13 W.
Land level. Soil 2nd rate covered with low chemical brush, very deep.
September 6, 1875.

From corner to Tps. 1 and 2 N., Rs 13 and 14 W., I run EAST on RANDOM line on NORTH boundary Sections 6, 5, 4, 3, 2 and 1, and at 5 miles 78.43 chs. to a point 2.20 chs. S. of corner to Tps. 1 and 2 N., Rs 12 and 13 W.

Therefore the correction will be 1.58 chs. W. and 37 lks. N. per mile, from the corner to Tps. 1 and 2 N., Rs 12 and 13 W., I run S. 89°44' W. on TRUE line on NORTH boundary of Section 1. Var. 14 1/4° E.

27 85 Cross road NW & SE.

40 00 Set oak post 3 x 3 ins. 3 ft. long in rock mound and pits, as per instructions, for 1/4 section corner.

80 00 Set oak post 4 x 4 ins. 3 1/2 ft. long in mound and pits, as per instructions, for corner to Sections 1, 2, 35 and 36, from which bears a Live Oak 12 ins. dia. S. 30 1/2° W. 1.82 chs. distant.

Land level. Canada covered with low chemise brush. Soil 2nd rate.

S. 89°44' W. on TRUE line on NORTH BOUNDARY Section 2. Var. 14 1/4° E.

19 50 Cross dry gulch 5 lks. wide course S.

40 00 Set oak post 3 x 3 ins. 3 1/2 ft. long in rock mound, as per instructions, for 1/4 section corner.

80 00 Set oak post 4 x 4 ins. 3 ft. long in mound and pits as per instructions, for corner to Sections 2, 3, 34 and 35.

Land level, canada covered with low brush. Soil mostly 2nd rate.

S. 89°44' W. on TRUE line on NORTH boundary of Section 3. Var. 14 1/4° E.

40 00 Set oak post 3 x 3 ins. 3 ft. long in a mound and pits as per instructions, for 1/4 section corner.

42 50 Cross dry gulch 100 lks. wide, course SW.

80.00 Set redwood post 4 x 4 ins. 3 1/2 ft. long in mound and pits, as per instructions, for corner to Sections 3, 4, 33 and 34.

Land level, covered with low brush in places, Soil 2nd rate grazing.

S. 89° 44' W. on TRUE line on NORTH boundary Section 4. Var. 14 1/2° E.

4 50 Cross dry bed of creek 1 lk. wide course SE.

18 00 Leave level canada and ascent, N & S.

40 00 Set oak post 3 x 3 ins. 3 ft. long in mound of rocks as per instructions on side hill facing E, for 1/4 section corner.

49 50 Summit of Spur N&S. Descend.

80 00 Set oak post 4 x 4 ins. 3 1/2 ft. long in rock mound on side hill facing S, as per instruction, for corner to Sections 4, 5, 32 and 33.

Land mostly rolling hills, Soil 2nd rate.

S. 89°44' W. on TRUE line on NORTH boundary of Section 5.

Var. 14 1/4° E.

12 50 Cross near head of ravine, course SE. Ascend.

38 00 Summit of spur N & S. Descend.

40 00 Set redwood post 3 x 3 ins. 3 ft. long in rock mound, as per instructions, for 1/4 section corner, from which bears

Redwood 6 ins. dia. S. 14 1/2° E 21 lks. distant

55 00 Cross dry gulch 5 lks. wide course S. Along on S slope of same.
50 00 Set redwood post 4 x 4 ins. 3½ ft. long in rock mound as per instructions, for corner to Sections 5, 6, 31 and 32.
Land over rolling hills. Soil 1st and 2nd rate.

S. 89°44' W. on TRUE line on NORTH boundary Section 6. Var 14 1/4° E.
40 00 Set redwood post 3 x 3 ins. 3 ft. long in rock mound and pits, as per instructions, on S slope of hill for 1/4 section corner, from which
brs.

A Redwood 6 ins. dia. N. 82° W. 20 lks. distant.
75 42 The corner to Tps. 1 and 2 N., Rs. 13 and 14 W.
Land along south slope of mountains mostly 2nd rate, covered with
low brush in places, Some good grazing. September 7, 1875.

From corner to Tps. 1 and 2 N. Rs. 12 and 13 W., I run
NORTH on EAST boundary of Section 36. Var. 14 1/4° E.
Ascending.

31 60 Summit of spur E & W. Descend.
33 50 Cross small ravine, course E. Ascend.
37 00 Summit of spur E & W
40 00 Set oak post 3 x 3 ins. 3 ft. long, in rock mound on side hill
facing N, as per instructions, for ¼ section corner.

54 30 Cross ravine 50 lks. wide course SE. Ascend over brushy hills.
65 00 Summit of spur E & W. Descend.
80 00 Set elder post 4 x 4 ins. 3½ ft. long in rock mound, as per instructions on steep side hill facing N, for corner to Sections 25, 30,
31, 36. Land, part in valley level, 2nd rate; north one half
brushy, 2nd rate.

NORTH on EAST boundary of Section 25. Var. 14 1/4° E.

13 00 Cross deep canada 100 lks. wide course E. Ascend.
40 00 Set redwood post 3 x 3 ins. 3 ft. long in rock mound, as per instructions, on summit of high ridge, course E&W. for ¼ section cor.

59 50 Cross deep gulch 50 lks. wide course E. Ascend.
74 00 Summit of spur E & W. Descend.
80 00 Point falling in deep gulch not suitable place to build monument.
Set oak post 4 x 4 ins. 3½ ft. long in mound and pits, as per instructions, 100 lks. North, for witness corner to Sections 19, 24,
25 and 30. Land very rough, 2nd and 3rd rate. Good bee range.

NORTH on EAST boundary Section 24. Var. 14 1/4° E.

1 00 Witness post on N bank of ravine, course SE. Ascend.
10 00 Summit of spur, course SE & NW. Descend.
18 75 Cross gulch 50 lks. wide course SE. Ascend.
37 00 Summit of spur course NE & SW. Descend.
40 00 Set oak post 3 x 3 ins. 3 ft. long in rock mound as per instructions
for 1/4 section corner.

56 50 Cross ravine 100 lks. wide course SE. Ascend on E side of same.
76 50 Cross same ravine 100 lks. wide course SW.
80 00 Set oak post 4 x 4 ins. 3½ ft. long in rock mound, as per instructions
for corner to Sections 13, 18, 19 and 24.
Land very rough, mostly 3rd rate. Good bee range.

NORTH on EAST boundary Section 13. Var. 14 1/4° E.

16 50 Cross gulch 50 lks. wide course SE. Ascending W slope of hill.
40 00 Set oak post 3 x 3 ins. 3 ft. long in rock mound, as per instructions
for 1/4 section corner.

60 00 Cross ravine 100 lks. wide course SW.
80 00 Set redwood post 4 x 4 ins. 3½ ft. long in rock mound, as per instructions, on side hill facing W. for corner to Sections 7, 12, 13 & 18
Land very rough and broken, 2nd and 3rd rate. Timber in canadas.

I find it impracticable to proceed further on this line on account
of the roughness and worthlessness of the country.
September 8, 1875.

From the corner to Tps. 1 and 2 N., Rn 13 and 14 W., I run NORTH between Ranges 13 and 14.

NORTH on WEST boundary of Sec. 31.

Var. 14 1/4° E.

Ascending.

20 00 Summit of spur E & W.

40 00 Set sand rock 6 x 10 x 16 ins. in mound as per instructions for 1/4 sec cor on S side of deep gulch, from which bears a Live Oak 10 ins. dia. S. 22 1/2° W. 20 lks. distant.

40 50 Cross short deep gulch 50 lks. wide course SW ascend.

61 00 Summit of spur course E & W

80 00 Set redwood post 4 x 4 ins. 3 1/2 ft. long in rock mound as per instructions, for cor to Secs. 25, 30, 31 and 36.
Land rolling 2nd rate soil.

NORTH on WEST boundary of Sec. 30.

Var. 14 1/4° E.

30 00 Cross deep gulch 50 lks. wide course SW.

40 00 Point for 1/4 sec cor falling on steep side hill, not a suitable place to build mound, so continue north and at

42 50 Set sand rock 10x10x20 ins. in mound as per instructions for 1/4 sec. cor.

46 50 Summit of ridge E & W

75 00 Cross gulch 75 lks. wide course SW. Ascend.

80 00 Set Sycamore post 4x4 ins. 3 1/2 ft. long in rock mound as per instructions on steep side hill facing S for cor. to Secs. 19, 24, 25, 30. Land rough, good grazing in places. Mostly 2nd rate soil.

Finding the ground too rough to measure further on this line, and to obtain the distance between Ranges 13 and 14, I return S. 33.50 chs. to summit of high ridge, being 46.50 chs. N. of cor. to Secs. 25, 30, 31 and 36. Not being able to run a base at this point, I leave a flag and proceed N to a point in valley and on the line between Ranges 13 and 14, and run base E of 10.00 chs. to a point where my flag bears S. 5° 55' W which would give by calculation a distance 96.49 chs. to the flag; from which take 33.50 chs. the distance from the corner to Secs. 19, 24, 25 and 30 (S to flag, makes 62.99 chs. N of the corner to Secs. 19, 24, 25 and 30.

Being unable to return to establish the 1/4 sec cor I set oak post 3x3 ins. 3 ft. long in rock mound at this point and continue in third mile North.

NORTH on WEST boundary of Sec. 19.

Var. 14 1/4° E.

80 00 Set redwood post 4x4 ins. 3 1/2 ft. long in rock mound, as per instructions, for cor to Secs. 18, 19, 13 and 24.

Land, part in mountains very rough, 3rd rate; part in valley 2nd rate, with low brush.

NORTH on WEST boundary of Sec. 18.

Var. 14 1/4° E.

40 00 Set elder post 3x3 ins. 3 ft. long in rock mound, as per instructions for 1/4 sec. cor.

63 00 Cross dry bed of creek 50 lks wide. Ascend.

80 00 Set sycamore post 4x4 ins. 3 1/2 ft. long in rock mound as per instructions on S. bank of deep canada, for cor. to Secs. 7, 12, 13 and 18 from which bears an Oak 12 ins. dia. N. 20° E. 59 lks. distant.
Land 1st rate, grazing.

September 8, 1875.

NORTH on WEST boundary of Sec. 7.

Var. 14 1/4° E.

50 Cross gulch 75 lks. wide, course W. Ascend on W. slope of ridge.

15 58 Descend.

22 25 Cross ravine 50 lks. wide course W. Ascend.

26 44 Summit of ridge course E & W. Descend.

30 00 Cross ravine, course W. Ascend.

35 20 Summit of spur course E & W. Descend.

40 00 Set oak post 3x3 ins. 3 ft. long in rock mound, as per instructions for 1/4 sec. cor.

63 00 Enter the Tujunga canada course SW & NE

80 00 Set elder post 4x4 ins. 3 1/2 ft. long in rock mound, as per instructions for cor. to Secs. 1, 6, 7 and 12.

Land 1st and 2nd rate, very brushy and broken.

NORTH on WEST boundary of Section 6. Var. 14 1/4° E.
 18 50 Cross road, course NE & SW
 37 00 Descend into creek of Tujunga, course SW.
 40 00 Set Sycamore post 3 x 3 ins. 3 ft. long in rock mound as per instructions, in dry bed of Tujunga Creek for quarter Section corner.
 43 00 Leave creek bed and ascend steep side hill.
 50 00 Set redwood post 4 x 4 ins. 3 1/2 ft. long in large rock mound, as per instructions, for corner to Tps. 2 and 3 N. Rs. 13 and 14 W.
 Land very rough, 2nd rate, grazing. Some Timber, oak & sycamore.

As the northern boundary of this Tp. is too rough to run, I run only part way. I therefore run it a TRUE line.
 EAST on a TRUE line on NORTH boundary Section 6. Var 14 1/4° E.
 Descending along SE slope of high mountain.
 19 50 Cross gulch 50 lks. wide course S. Ascend.
 33 00 Summit of spur N & S. Descend.
 40 00 Set sand rock 10 x 10 x 24 ins. in rock mound as per instructions, for 1/4 section corner.
 50 50 Cross gulch 100 lks. wide, course S.
 75 50 Enter Canada of Tujunga, course SW & NE.
 80 00 Set Sycamore post 4 x 4 ins. 3 1/2 ft. long, in rock mound as per instructions, at foot of high mountain on N side of Tujunga Creek, for corner Sections 5, 6, 31 and 32.
 Land rough, 2nd rate, with scattering timber.

EAST on TRUE line NORTH boundary of Section 5. Var. 14 1/4° E.
 2 50 Enter creek of Tujunga, course SW.
 9 00 Leave same, course SW. Along on S. side.
 40 00 Set sycamore post 3 x 3 ins. 3 ft. long, in rock mound as per instruction for 1/4 section corner on S. bank of creek.
 60 00 The land being too rough to run further on this line, I offset North 5.00 chs. to a point in Tujunga Creek; thence run E 20.00 chs. thence S 5 chs., making EAST.
 80 00 Set oak post 4 x 4 ins. 3 1/2 ft. long in rock mound as per instructions on North slope of mountains, for corner to Sections 4, 5, 32 and 33.
 Land very rough, 2nd rate grazing. Timber live oak and sycamore.
 This is as far east as is practicable to run this line on account of the roughness and worthlessness of the country.

September 9, 1875.

Surveyed By Wm. J. Norway
 Contract of July 31, 1875.
 Book 300, Part 25.

Field notes of the Subdivision of Fractional Tp 2 N, R 13 W. S. B. M. & M. in the County of Los Angeles, by W.H. Norway, U.S. Deputy Surveyor, under Contract (of July 31, 1875) with James T. Stratton, U. S. Surveyor General of California. (Book 163, Part 3).

Before subdividing this Township I find it necessary to resurvey the Northern boundary of the Rancho La Canada as some of the monuments cannot be found.

From corner No. 81, the NE corner of said Rancho and corner No. 10 of the Rancho San Pascual, I run along the northern boundary of said Ro. N. $60\frac{1}{2}^{\circ}$ W. Var. $14\frac{1}{4}^{\circ}$ E.

1st
chs
229.26

To a point where corner No. 82 brs. S. 64° W. 8.90 chs. distant. I find an old monument of rocks, the stake being decayed, said to be the monument erected in the original survey. I rebuild said monument and set a redwood post 4x4 ins. 3 ft. long in same mound of rocks, marked L O No. 2.

Of my survey, I find by calculation, the true bearing and distance of this course to be N. $62^{\circ} 18'$ W. 234.43 chs. instead of N. $60\frac{1}{2}^{\circ}$ W. 227.00 chs. as reported in the field notes of the final survey of said Rancho.

In order to connect this Rancho with the Tp. line, I run from this corner S. $62^{\circ} 18'$ E. along northern boundary of said Rancho, 131.63 chs. Intersect the Southern boundary of T 2 N, R 13 W, 13.36 chs. west of the corner to Tps. 1 and 2 N, Rs 12 and 13 W.

I set a redwood post 4 x 4 ins. $3\frac{1}{2}$ ft. long in a mound of rocks as per instructions, for cor to fractional sections 1 and 36.

I continue S. $62^{\circ} 18'$ E.

146.73
7 02

Intersect the line between Rs. 12 and 13 W. in T 1 N. South of the corner to Tps. 1 and 2 N, set an oak post 4 x 4 ins. $3\frac{1}{2}$ ft. long in a mound and pits as instructed for corner to frac. Secs. 1 and 6.

I then return to corner No. 2 of my survey and run the courses and distances as given in the final survey of said Rancho.

N. $51\frac{1}{2}^{\circ}$ W.

15 89

Finding no corner as called for in former survey, I set a sycamore post 4 x 4 ins. $3\frac{1}{2}$ ft. long in mound of rocks.

I marked same L. O. No. 3.

N. $55\frac{1}{2}^{\circ}$ W.

10 55

Finding no corner I set an oak post 4 x 4 ins. $3\frac{1}{2}$ ft. long in a mound of rocks on east side of a dry creek and mark same L.O. No. 4. September 10, 1875.

N. 29° W.

3 00

Enter dry bed of creek course SW.

7 20

Leave same at perpendicular bank. Thence crossing brushy table land.

13 15

Finding no corner I set an elder post 4 x 4 ins. 3 ft. long in a large mound of rocks on edge of high bank of table land, W of gulch Marked same L O No. 5.

N. $44\frac{3}{4}^{\circ}$ W.

37 00

Finding no corner I set a sycamore post 3 x 3 ins. 3 ft. long in a mound of rocks, on E side of gulch and mark same L O No. 6, for corner No. 6 of my survey of Rancho La Canada. Thence N. $17\frac{1}{4}^{\circ}$ W.

8 40

Enter gulch course S.

10 50

Leave same gulch then along W. side.

18 00

To a point where a mound of rocks standing on the east side edge of high table land on W side of dry arroyo, brs. S. $72\frac{3}{4}^{\circ}$ W. 71 lks. dist. From the appearance of this mound of rocks, I am satisfied it is one of the corners set in the original survey, and that the error belongs in this last course and distance.

I therefore find the true bearing and distance from corner No. 6 to be N. $19\frac{1}{4}^{\circ}$ W.

18 00

Instead of N. $17\frac{1}{4}^{\circ}$ W.

24 50

As reported in the final survey of said Rancho.

I rebuild this mound and set a sycamore post 3 x 3 ins. 3 $\frac{1}{2}$ ft. long and mark same L O No. 7, in same mound of rocks. Thence N. 4° 02' E. Along east edge of high mesa of table lands.

23 24 Finding no trace of mound of rocks as called for in the corner survey of said Rancho. I set an oak post 3 x 3 ins. 3 ft. long in a large mound of rocks at the SE base of a low hill, on W side of Canada and mark same L O No. 8, for corner No. 8 of my survey of the Rancho La Canada. Thence N. 70 $\frac{1}{2}$ ° W.

209 25 To a point where Gray Granite Rock in mound of rocks, corner No. 89 of the original survey of this Rancho, and NE corner of the Rancho Tujunga bears.

12 80 N. 19 $\frac{1}{2}$ ° E. This rock mound stands at the foot of the mountains and is known to be the corner set in the original survey from this cor. "No. 9 of my survey" I retract this course, according to its correction.

209 62 S. 67° E.

40 50 To W edge of deep Canada course S.

44 00 Cross same, course S.

106 50 Cross gulch 100 lks. wide, course SE. A house N. about 12 chs.

122 00 Cross dry gulch 100 lks. wide, course S.

140 00 Cross road, course S.

143 50 L. H. Price's house about 3 chs. N.

152 00 Cross gulch, course SE.

167 00 Cross dry gulch, course SE.

177 50 Summit of spur, course N & S

182 00 Cross gulch course SW.

209 62 Corner No. 8 of said Rancho, as reestablished by me. Then I return to corner No. 9, Gray Granite Rock at the foot of the mountain being the NW corner of Rancho La Canada and NE corner of Rancho Tujunga, I run along the northern boundary of the Rancho Tujunga N. 80° W.

26 00 Cross a gulch 50 lks. wide, course SW.

96 00 Corner No. 11 of the final survey of said Rancho. Thence N. 22° W.

9 90 Intersect the Western boundary of the Tp. 22.82 chs. NORTH of the corner to Sections 18 and 19. Set an oak post 3 x 3 ins. 3 ft. long in a mound of rocks at intersection as instructed for corner to fractional sections 18 and 13. September 12, 1875.

SUBDIVISION of Fractional T 2 N, R 13 W. S.B.B. & M.

From the corner to Sections 35 and 36 on the southern boundary of the Township, inside the Rancho La Canada, I run

34 95 NORTH between Sections 35 and 36. Var. 14 1/4° E. Intersect the northern boundary of the Rancho La Canada. Set an elder post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed.

1 98 SOUTH for witness to corner to fractional 35 and 36, from which a Redwood 4 in. dia. bears S. 45° E. 05 lks. dist. From this point of intersection I run along the northern boundary of said Rancho as resurveyed by me.

75 20 S. 62° 18' E. To the corner to fractional Secs. 1 and 36, then from the corner to fractional Secs. 35 and 36, I continue

40 00 NORTH between Sections 35 and 36. Counting the distances from the corner to Secs. 1 2, 35 and 36. Set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed for 1/4 section corner.

48 00 Cross road, NW & SE.

69 00 Dunks house about 10.06 chs. E.

80 00 Set a granite rock 6 x 6 x 15 ins. also an oak post 3 x 3 ins. 3 $\frac{1}{2}$ ft. long in a mound of rocks as instructed for corner to Secs. 25, 26, 35 & 36. Land level, covered with low grease brush. Soil 2nd rate.

EAST on a RANDOM line between Sections 25 and 36. Var. 14 1/4° E. Along S slope of mountains.

35 00 A house SW of line about 12 chs. and a house S 10 chs.

40 00 Set a post for temporary 1/4 section corner.

62 00 Cross gulch 05 lks. wide, course SE.
80 14 Intersect the Eastern boundary of the Tp. 21 lks. S of the corner to Sections 25 and 36. Whence I run S. 89°51' W. on a TRUE line between Sections 25 and 36. Var 14 1/4° E.
40 07 Set an oak post 4 x 4 ins. 3 ft. long in a mound of earth and pits as instructed for 1/4 section corner.
80 14 The corner to Sections 25, 26, 35 and 36.
Land along S slope of mountains 2nd rate. Good bee range.

NORTH between Sections 25 and 26. Var. 14 1/4° E.
Ascending.
40 00 Set a redwood post 3 x 3 ins. 5 ft. long in a mound and pits as instructed for 1/4 section corner, whence a Redwood 6 in. dia. bears N. 22° E. 21 lks. dist.
52 60 Summit of spur E & W. Descend.
61 50 Cross ravine 50 lks wide course E. Ascend.
80 00 Set a redwood post 4 x 4 ins. 3 1/2 ft. in a mound of rocks as instructed, on top of ridge bearing NW & SE, for corner to sections 23, 24, 25 and 26.
Land very rough. Good bee range. Grazing 2nd rate.

EAST on a RANDOM line between Sections 24 and 25. Var. 14 1/4° E.
Along north slope of divide.
35 50 Cross gulch 100 lks. wide course NE then along N slope of ridge.
79 84 Intersect Eastern boundary of Tp at point for corner to Sections 24 and 25, whence I run,
WEST on a TRUE line between Sections 24 and 25. Var. 14 1/4° E.
39 92 Set a sand rock 6x6x12 ins. in mound of rocks on side hill facing NW as instructed for 1/4 section corner.
79 84 The corner to Sections 23, 24, 25 and 26.
Land very rough, 2nd rate. Some scattering timber. Bee ranges.

NORTH between Sections 23 and 24. Var. 14 1/4° E.
17 50 Cross near head of gulch, course SE. Ascend.
40 00 Set an oak post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed for 1/4 section corner.
62 50 A large sand rock on line.
80 00 Set a redwood post 4 x 4 ins. 3 1/2 ft. long in a large mound of rocks on edge of a high perpendicular bluff, sloping to the NE as instructed for corner to Sections 13, 14, 23 and 24, from which a sand rock 10 ft cube, bears S. 45° W. 1 ch. distant.

EAST on a RANDOM line between Sections 13 and 24. Var. 14 1/4° E.
37 50 Cross gulch course SE. Ascend.
40 00 Set post for temporary 1/4 section corner.
54 50 Summit of spur course NW & SE. Descend.
79 80 Intersect the eastern boundary of the Tp 16 lks. N. of the corner to sections 13 and 24, whence I run
N. 89°03' W on a TRUE line between Sections 13 and 24. Var. 14 1/4° E.
39 90 Set a redwood post 3 x 3 ins. 3 ft. long in a large mound of rocks as instructed, on side hill facing NE for 1/4 section corner.
79 80 The corner to Sections 13, 14, 23 and 24.
Land broken, soil mostly 2nd rate.

NORTH between Sections 13 and 14. Var. 14 1/4° E.
Being unable to measure across a deep canada, I cause a flag to be placed on the N side of deep canada, and in the line between Sections 13 and 14, and run a base east of 5 chs. to a point where my flag bears N. 8°05' W, which would give by calculation a distance of 35.20 chs. to flag on N side of deep canada, from this point I continue NORTH between Sections 13 and 14.
40 00 Set a redwood post 3 x 3 ins. 3 ft. long in a mound and pits as instructed, on summit of high ridge bearing E & W. for 1/4 section corner. Being unable to run farther north on this line on account of the roughness and worthlessness of the country.

EAST on 1/4 Section line through center of Section 13 on a TRUE line. Descending along ridge. Var. 14 1/4° E.

40 00 Set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed on steep side hill sloping E. for center of Section 13, This is as far north as the land is practicable to survey.
September 13, 1875.

From the corner to Sections 25, 26, 35 and 36 and I ran
WEST on a TRUE line between Sections 26 and 35. Var 14 1/4° E.
3 00 Cross dry gulch 50 lks. wide, course S.
18 00 Cross wagon road course NW & SE.
22 00 Cross dry gulch 75 lks. wide, course SE.
27 00 Randall's house about 6.00 chs. N. of line.
40 00 Set a redwood post 4x4 ins. 3 1/2 ft. long in a mound and pits as instructed for 1/4 section corner.
47 00 Cross road course NE & SW.
52 00 Hall and Beckley's house 1 00 ch. N.
72 61 Intersect NE boundary of the Rancho La Canada. Set a sycamore post 4x4 ins. 3 1/2 ft. long in a mound of rocks as instructed, on E. side of creek, for corner to Sections (fractional) 26 and 35, 3.15 chs. N. 29° W. of corner No. 4 of said Rancho as resurveyed by myself. Continuing WEST.
80 00 To point for corner to Sections 26, 27, 34 and 35, inside the Rancho, I do not establish this corner. Land mostly level, 1st rate.

NORTH between Sections 26 and 27. Var. 14 1/4° E.
11 23 Intersect the northern boundary of the Rancho La Canada and set a sycamore post 4x4 ins. 3 1/2 ft. long in a mound and pits as instructed for corner to fractional sections 26 and 27, 3.58 chs. N. 44 1/2° W. from corner L O No. 5, as resurveyed by myself, continuing NORTH.
32 50 Leave valley and ascend, course of valley E & W.
40 00 Set a redwood post 3x3 ins. 3 ft. long in a large mound of rocks as instructed, on S. slope of mountains for 1/4 section corner.
46 50 Summit of a spur bearing E & W.
70 00 Cross near head of a short gulch, course NW.
80 00 Set a sand rock 6x6x10 ins. in a mound of rocks as instructed, for corner to Sections 22, 23, 26 and 27.
Land S 1/4 of valley 1st rate, N 1/4 mountains 2nd rate. Bee ranges.

EAST on a RANDOM line between Sections 23 and 26. Var. 14 1/4° E.
Along S slope of mountains.
40 00 Set a post for temporary 1/4 section corner.
80 20 Intersect the N & S line 15 lks. S. of the corner to Sections 23, 24, 25 and 26, whence I run.
S. 89°54' W. on a TRUE line between Sections 23 and 26. Var. 14 1/4° E.
40 10 Set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed, on side hill facing S. for 1/4 section corner, whence a Live Oak 12 ins. dia. bears N. 10° W. 27 lks. distant.
80 20 The corner to Sections 22, 23, 26 and 27.
Land along high mountain range, some scattering timber.

NORTH between Sections 22 and 23, Ascending. Var. 14 1/4° E.
8 00 Summit of spur bearing NE & SW. Descend.
17 50 Cross near head of gulch 50 lks. wide course S.W. Ascend.
32 50 Summit of spur bearing NE & SW. Descend.
40 00 Set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed, on side hill facing NW for 1/4 section corner.
58 50 Cross deep gulch 100 lks. wide course SW. Ascend.
80 00 Set a sand rock 10 x 16 x 20 ins. in a mound of rocks as instructed, on side hill facing SE for corner to Sections 14, 15, 22 and 23.
Land high rolling mountains, 2nd rate with scattering timber. Good Bee range.

EAST on a RANDOM line between Sections 14 and 23. Var. 14 1/4° E.
This line being too rough to measure and to obtain the distance, I cause a flag to be placed east and on the line between Sections 14 and 23 and run a base N. 5 chs. to a point where my flag bears S. 83° 05' E. which would give by calculations a distance of 41.21 chs. to the flag. I find it impracticable to measure further East. I make it a TRUE line and run it WEST on a TRUE line between Sections 14 and 23. Var. 14 1/4° E.
1 21 Set a spruce post 3x3 ins. 3 ft. long in a mound of rocks as

41.21 instructed, on side hill facing W. for $\frac{1}{4}$ section corner.
 The corner to Sections 14, 15, 22 and 23.
 Land very rough 2nd & 3rd rate.

NORTH between Sections 14 and 15. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 Ascending along W. slope of hills.
 18 00 Summit of spur bearing NE & SW. Descend.
 24 50 Cross near head of gulch course SW. Ascend.
 40 00 Set an oak post 3x3 ins. 3 ft. long in a mound of rocks as instructed
 on side hill facing S. for $\frac{1}{4}$ section corner.
 60 00 Summit of high ridge bearing E & W. Being unable to proceed farther
 on this line, I set a redwood post 3x3 ins. 3 ft. long in a mound of
 rocks as instructed, on summit of ridge for $\frac{1}{8}$ section corner, whence
 a large rock 20 ft. cube bears N. 45° E. 60 lks. distant. Thence EAST
 through N. $\frac{1}{2}$ of Section 14 on $\frac{1}{8}$ line. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 Descending along ridge.
 40 00 Set a sand rock 6 x 10 x 14 ins. in a mound of rocks as instructed.
 on side hill facing E for $\frac{1}{8}$ section corner. Thence NORTH on $\frac{1}{4}$
 section line through Section 14. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 Descending.
 20 00 Set a redwood post 3x3 ins. 3 ft. long in a mound of earth and pits
 as instructed, for $\frac{1}{4}$ section corner, whence a
 Redwood 6 in. dia. bears S. $2\frac{1}{2}^{\circ}$ W. 22 lks. distant.
 This is all the land in this direction that is practicable to survey.
 Land high rolling, 2nd rate. Some scattering timber.
 September 14, 1875.

See U S No. 9073, pages 1 and 2.

NORTH between Sections 15 and 16. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 10 50 Summit of spur bearing NE & SW. Descend.
 36 00 Cross near head of a gulch 50 lks. wide course SW. Ascend.
 40 00 Set a redwood post 3x3 ins. 3 ft. long in a mound of rocks as in-
 structed, on side hill facing S. for $\frac{1}{4}$ section corner, whence a
 Scrub pine 14 ins. dia. brs. N. $22\frac{1}{2}^{\circ}$ W. 62 lks. dist.
 80 00 Set a redwood post 4x4 ins. $3\frac{1}{2}$ ft. long in a large mound of rocks
 as instructed, on steep side hill facing S for corner to Sections 9,
 10, 15 and 16. Land very rough, 2nd rate. Scattering pine and red-
 wood timber 2nd quality.

As the line between Sections 10 and 15 cannot be run through, I run
 EAST on a TRUE line between Sections 10 and 15. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 Ascending.
 23 50 Summit of a high spur bearing N & S. Descend.
 40 00 To center of a ravine 100 lks. wide, course S. not a suitable place
 to build a mound. I set a redwood post 3x3 ins. 3 ft. long in a
 mound of rocks as instructed, 200 chs. W. for witness to $\frac{1}{4}$ section
 corner, when a
 Fir 10 ins. dia. bears S. $14\frac{1}{2}^{\circ}$ W. 80 lks. distant.
 Land high mountains. Timber, scattering fir and pine.
 This is all the land in this direction that is practicable to sub-
 divide, as the mountains are very abrupt and worthless. September 15,
 1875.

From the corner to Sections 15, 16, 21 and 22, I run
 WEST on a TRUE line between Sections 16 and 21. Var. 14 $1\frac{1}{4}^{\circ}$ E.
 Descending.
 40 00 Set an oak post 3x3 ins. 3 ft. long in a mound of rocks as instructed
 on side hill facing W. for $\frac{1}{4}$ section corner.
 56 50 Cross gulch 50 lks. wide course S. at junction of another gulch, Ascend
 70 00 Summit of spur bearing NE & SW. Descend.
 80 00 To point for corner to Sections 16, 17, 20 and 21, falling in deep
 canada course SW not a suitable place to build a monument. I set an
 oak post 4x4 ins. 3 ft. long in a mound of rocks as instructed, on
 summit of ridge 5.40 chs. S. for witness to Secs. 16, 17, 20 and 21.
 Land mostly rough, 2nd rate. Soil good bee ranges.

The line between Sections 20 and 21 will strike the northern boundary
 of the Rancho La Canada is less than 80 chs. I therefore run it S.

SOUTH between Sections 20 and 21. Var. $14\frac{1}{4}^{\circ}$ E.
 5 40 Witness post on summit of spur bearing NE & SW. Descend.
 18 00 Foot of hill, enter valley bearing E & W.
 28 93 Intersect the north boundary of the Rancho La Canada.
 Set a sycamore post 4×4 ins. $3\frac{1}{2}$ ft. long in a mound of earth and
 pits as instructed, for corner to fractional sections 20 and 21,
 whence I run along the northern boundary of said Rancho as resurveyed
 by me S. 67° E.
 86 95 To corner to fractional Sections 21 and 22.
 Land mostly level, 1st and 2nd rate.

From the TRUE corner to Sections 16, 17, 20 and 21, I run
 NORTH between Sections 16 and 17. Var. $14\frac{1}{4}^{\circ}$ E.
 50 Leave gulch and ascend.
 40 00 Set a granite rock $10 \times 12 \times 20$ ins. in a mound of rocks as instructed
 on side hill facing SE for $\frac{1}{4}$ section corner.
 80 00 Set a redwood post 4×4 ins. $3\frac{1}{2}$ ft. long in a mound of earth and pits
 as instructed for corner to Sections 8, 9, 16 and 17, whence a
 Fir 24 ins. dia. bears N. $14\frac{1}{2}^{\circ}$ E. 49 lks. distant.
 Mountains 2nd and 3rd rate. Timber scattering.

EAST on a RANDOM line between Sections 9 and 16. Var. $14\frac{1}{4}^{\circ}$ E.
 40 00 Descending along S slope of mountains.
 To a point on W edge of an abrupt Canada, finding it impossible to
 run farther on this line on account of the abruptness of the mount-
 ains I set an oak post 3×3 ins. 3 ft. long in a mound of rocks as
 instructed, on high bluff bank of arroyo for $\frac{1}{4}$ section corner, whence
 Live oak 10 ins. dia. bears S. 28° W. 17 lks. distant, and make
 it a true line.

WEST on a TRUE line between Sections 9 and 16. Var. $14\frac{1}{4}^{\circ}$ E.
 40 00 The corner to Sections 8, 9, 16 and 17.
 Land rough, 2nd rate. Timber, scattering pine, oak and fir.

NORTH between Sections 8 and 9. Ascending. Var. $14\frac{1}{4}^{\circ}$ E.
 20 00 Summit of a high ridge bearing NE & SW
 24 50 Descending.
 40 00 Set a fir post 3×3 ins. 3 ft. long in a mound of rocks as instructed
 for $\frac{1}{4}$ section corner, whence a
 Pine 24 ins. dia. bears S. $14\frac{1}{2}^{\circ}$ E. 28 lks. distant.
 Redwood 4 ins. dia. N. 22° W. 17 lks. distant.
 Finding the country too rough to measure farther on this line I run
 EAST on a TRUE line through center of Section 9. Var. $14\frac{1}{4}^{\circ}$ E.
 22 50 Along N. slope of mountains.
 40 00 Cross ravine near head course NW.
 Set redwood post 3×3 ins. 3 ft. long in a mound of rocks as instructed
 about 3 chs. N. of the summit of high ridge for center of Section 9,
 then run NORTH.

NORTH through center of Section 9, on $\frac{1}{4}$ sec. line. Var. $14\frac{1}{4}^{\circ}$ E.
 33 75 Descending.
 40 00 Cross near head of gulch 50 lks. wide course NW.
 Set a redwood post 3×3 ins. 3 ft. long in a mound of rocks as in-
 structed, on steep side hill facing W. for $\frac{1}{4}$ section corner, be-
 tween Sections 4 and 9, whence a
 Pitch Pine 24 ins. dia. bears S. 28° W. 52 lks. distant,
 Land rough, 2nd rate. Timber, pine and oak, scattering fir.

Finding it impossible to run east on this line I run
 WEST on a TRUE line between Secs. 4 and 9. Descending. Var. $14\frac{1}{4}^{\circ}$ E.
 8 50 Cross a gulch 100 lks. wide course NW. Ascend.
 40 00 Summit of high spur bearing NW & SE.
 Set a redwood post 4×4 ins. $3\frac{1}{2}$ ft. long in a mound of rocks as in-
 structed, for corner to Sections 4, 5, 8 and 9.
 Land very rough, 2nd rate, timber.

NORTH on a RANDOM line between Sections 4 and 5. Var. $14\frac{1}{4}^{\circ}$ E.

- 4 00 Descend over abrupt and broken spur.
40 00 Set a post for temporary $\frac{1}{4}$ section corner in deep gulch 100 lks. wide, Course NW. Ascend SW. slope of mountain.
71 00 Summit of spur bearing E & W Descend.
81 25 Intersect the northern boundary of Tp. 67 lks. E. of the corner to 4 and 5, whence I run S. $0^{\circ}29'$ E. on a TRUE line between Sections 4 and 5. Var. $14\frac{1}{4}^{\circ}$ E.
41 25 The point for $\frac{1}{4}$ section corner falling in deep gulch not a suitable place to build a monument, I set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks 2 chs. S. on S. side of a ravine as instructed, for $\frac{1}{4}$ section corner, whence a Live Oak 12 ins. dia. bears N. 49° W. 26 lks. distant.
81 25 The corner to Sections 4, 5, 8 and 9.
Land rolling mountains 2nd rate. Timber scattering oak, pine and fir.
September 16, 1875.

- From the TRUE corner to Sections 16, 17, 20 and 21 I run WEST on a TRUE line between Sections 17 and 20. Var. 14° E.
5 00 Leave Canada and ascend along S slope of mountain.
28 50 Cross near head of gulch course S.
40 00 Set an oak post 3 x 3 ins. 3 ft. long in a mound of rocks as instructed on point of spur facing S.
71 50 Leave hills enter valley course NE & SW
78 47 Intersect Northern boundary of the Rancho Tujunga 18 chs. N. 80° W. of corner No. 9 of Rancho La Canada as resurveyed by me.
Set an oak post 4 x 4 ins. 3 ft. long in a mound of earth and pits as instructed, at the point of intersection for corner to fractional Sections 17 and 20, continuing through Rancho Tujunga.
80 00 The point for corner to Sections 17, 18, 19 and 20, I do not establish the corner.
A house NE about 6 chs.
Land along S. slope of mountains, 1st and 2nd rate.

- NORTH between Sections 17 and 18. Var. $14\frac{1}{4}^{\circ}$ E.
0 27 Intersect Northern boundary of Rancho Tujunga 1.56 chs. N. 80° W. of the corner to fractional Sections 17 and 20.
Set a redwood post 3 x 3 ins. 3 ft. long in a mound of earth and pits as instructed, for corner to fractional Sections 17 and 18, continue N.
15 50 Leave valley and ascend, course E & W.
25 00 Summit of spur bearing E & W. Descend.
40 00 Set an oak post 3x3 ins. 3 ft. long in a mound of rocks as instructed for $\frac{1}{4}$ section corner on N slope of hill.
58 50 Cross gulch 50 lks. wide course SW. Descend.
80 00 Set a granite rock 12x10 20 ins. in a mound of rocks as instructed for corner to Sections 7, 8, 17 and 18.
Land rough hills, 2nd rate. See ranges.

- EAST on a RANDOM line between Sections 8 and 17. Var. $14\frac{1}{4}^{\circ}$ E.
Along S slope of hills.
23 50 Cross gulch 50 lks. wide course SW. Ascend.
40 00 Set post for temporary $\frac{1}{4}$ section corner.
59 00 Summit of a spur bearing NE & SW. Thence along S slope of same.
80 16 Intersect the E & S line at the post corner to Sections 8, 9, 16 & 17. Whence I run WEST on a TRUE line between Sections 8 and 17. Var. $14\frac{1}{4}^{\circ}$ E.
40 08 Set a redwood post 3x3 ins. 3 ft. long in a mound of rocks as instructed for $\frac{1}{4}$ section corner.
80 16 The corner to Sections 7, 8, 17 and 18.
Land over high mountains, 2nd rate. Timber scattering oak and redwood poles.
For lines between Sections 7 and 18)
do. do. 7 and 18)
do. do. 6 and 7 See C S No. 9089

EAST on a RANDOM line between Sections 5 and 8. Var. $14\frac{1}{4}^{\circ}$ E.
Descending.

21 00 Cross a deep gulch 150 lks. wide course NW. Ascend.
40 00 Set post for temporary $\frac{1}{4}$ section corner.
80 00 Intersect the N & S line 18 lks. N. of corner to Sections 4, 5, 8 & 9
From this corner I run

N. $89^{\circ}52'$ W on a TRUE line between Sections 5 and 8. Var. $14\frac{1}{4}^{\circ}$ E.
40 00 Set a redwood post 3 x 3 ins. 3 ft. long in a mound of rocks as
instructed, for $\frac{1}{4}$ section corner.

80 00 The corner to Sections 5, 6, 7 and 8.
Land high mountains, with scattering timber.
Soil very rocky, 3rd rate.

NORTH on a RANDOM line between Sections 5 and 6. Var. $14\frac{1}{4}^{\circ}$ E.

5 00 Summit of spur bearing NW & SE. Descend.
38 00 Cross a ravine 100 lks. wide course NW. Ascend.
40 00 Set a post for temporary $\frac{1}{4}$ section corner.
54 00 Summit of spur bearing NW & SE. Descend.
76 50 Tujunga Creek course SW.
79 00 Cross same.
81 06 Intersect the northern boundary of Tp. 16 lks. E. of the corner to
Sections 5 and 6, whence I run

S. $0^{\circ}07'$ E. on a TRUE line between Sections 5 and 6. Var. $14\frac{1}{4}^{\circ}$ E.
41 06 Set a redwood post 3x3 ins. 3 ft. long in a mound of earth and pits
as instructed for $\frac{1}{4}$ section corner.
81 06 The corner to Sections 5, 6, 7 and 8.

This comprises all the land that is practicable to survey in the
TOWNSHIP. September 18, 1875.

General Description.

There is a very small proportion of agricultural land
in this township situated along the northern boundary
of the Rancho La Canada.

There are settlers along the foothills who are princi-
pally engaged in bee culture.

The mountains are high with scattering timber, oak,
pine and fir, the greater portion of which is only
valuable for fuel. There is no water in the valley ex-
cept small springs.

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

From the corner to Sections 5, 6, 31 and 32, I run
 N. 89°39' W. on a RANDOM line between Sections 6 and 31.

39 55

From the $\frac{1}{4}$ section corner, I continue N. 89°39' W.
 To a point 44 lks. south of corner to Tps. 1 and 2 N., Rs. 12 and 13 W.
 where I found a portion of an old stone mound.
 To re-mark 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 NE.
 R 12 W S 6 on S E
 T 2 N S on SW, and
 R 13 W S 36 on NW faces; dug pits 36 x 36 x 12 ins.
 N&E of corner, 4 ft. distant and rebuild old mound of stone, with
 earth $1\frac{1}{2}$ ft. high 5 ft. base around post. Thence I run
 S. 89° 01' E. on a TRUE line between Sections 6 and 31.
 Descend through field. ++++++

Through

T 2 N, R 13 W. S. B. M.

at the corner to Sections 7, 12, 13 and 18, the Latitude 34°14' N.
 Long. 117°12' W., at 7h 39m P.M., I observe Polaris at eastern elonga-
 tion and mark the line thus determined by a tack driven in a wooden
 plug set firmly in the ground 5 chs. N. of my station.
 September 18, at 6h 30m AM. A.M.T., I lay of the azimuth of Polaris
 1°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 N. 15°01' W., the mean Mag. Decl. 15°00' E. at
 7h 0m., 1.m.t., I set off 34°16' N. on the lat arc. 1034' N. on the
 Decl. arc, and determine 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 & 18, I cause a flag to be set on top of divide between the
 Arroyo Seco and Tujunga Canyons. I now go to a point 19 chs. North
 of corner to Sections 13, 18, 19 and 24, from which flag on divide
 bears N. 70°40' W, base 61 chs. angle 19°20', equals 2 miles,
 13.85 chs., to top of divide, 6000 ft. high, bears NW & SE, counting
 distance from corner to Sections 10, 11, 14 and 15, 13.85 chs. west.
 Set temporary $\frac{1}{4}$ section corner.
 To a point 65 lks. N. of corner to Sections 9, 10, 15 and 16, where
 I found a portion of old stone mound but no 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 S and 3 notches on E
 edges, and raised a mound of stone 2 ft. high $4\frac{1}{2}$ ft. base W. 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
 S. 89°51' E. on a TRUE line between Sections 10 and 15. Ascend.
 Top of spur bears N & S. Descend.
 Cross canyon 19 lks. wide course S. 20° E. Ascend.
 The point for $\frac{1}{4}$ section corner falls on granite boulder in place
 6x3x3 ft. above ground on which I cut a + at the exact corner for
 $\frac{1}{4}$ section corner marked $\frac{1}{4}$ on N side of cross and raised a mound of
 stone $1\frac{1}{2}$ ft. high 2 ft. base N. of corner. Pits impracticable.
 To triangulation point. Land mountainous. Soil 3d rate. No timber.
 Dense undergrowth of chaparral.

WEST on a RANDOM line between Sections 9 and 16.
 40 00 After diligent search being unable to find any trace of $\frac{1}{4}$ sec. corner, I set temporary $\frac{1}{4}$ sec. cor. and continue west.
 80 45 To a point 25 lks. S. of corner to Secs. 8, 9, 16 and 17 where I found traces of old mound and pits. To remark corner I set a sandstone 20x10x8 ins. 15 ins. in the ground marked S G F R on N face with 4 notches on S and E edges and raised a mound of stone 2 ft. high $3\frac{1}{2}$ ft. base W of cor. Pits impracticable. Thence I run S $89^{\circ}49'$ E. on a TRUE line between Sections 9 and 16. Descend.
 2 75 Cross gulch 4 lks. wide 90 ft. below sec. cor. course S. Ascend.
 12 95 Top of ridge 700 ft. above gulch, bears S & NE and along same.
 17 95 Top of same ridge bears N & SE.
 21 45 Top of same ridge bears S & NE. Descend.
 28 45 Head of gulch 5 lks. wide course SW 300 ft. below top of ridge. Ascend.
 32 15 Top of spur 200 ft. above gulch bears N & SW. Descend.
 40 22 $\frac{1}{2}$ Set a sandstone 36x16x12 ins. 27 ins. in the ground for $\frac{1}{4}$ sec. cor. marked S G F R $\frac{1}{4}$ on N face, and raised a stone mound $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base N of cor. Pits impracticable.
 43 45 Head of Dunsmore Canyon, course S 500 ft. below top of spur. Ascend.
 54 05 Top of ridge 300 ft. above canyon, bears NW & SE and along same.
 74 45 Top of same ridge bears NE & SW. Descend.
 77 45 Head of Peckins Canyon, course S, 100 ft. below top of ridge, Ascend.
 80 45 The corner to Sections 9, 10, 15 and 16.
 Land mountainous. Soil 3rd rate. No timber.
 Dense undergrowth of chamisal. Mountainous land 80.45 chs.

For line between Secs. 8 and 17)
 7 and 18) See C S No. 9089

From the $\frac{1}{4}$ sec. cor. between Secs. 7 and 18, I run
 38 84 S. $89^{\circ}43'$ W. on a RANDOM line between Secs. 7 and 18.
 To a point 37 lks. S. of cor. to Secs. 7, 12, 13 and 18, on W. boundary of Tp. where I found an old stone mound from which bears a Live Oak 14 ins. dia. N. 19° E. 58 lks. distant, marked
 T 2 N, R 13 W, S 7 BT
 I further marked tree S G F R 26 on NE side and to reestablish cor. and to mark cor. No. 26 on boundary of San Gabriel Forest Reservation, I set a sq. 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, marked
 S G F R 26, T 2 N, S 7 on NE.
 R 13 W S 18 on SE.
 R 14 W S 13 on SW and
 S 12 on NW 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. dia. N. 15° W. 76 lks. dist. which I marked
 T. 2 N. R. 14 W. S. 12 BT. Thence I run
 S. $89^{\circ}44'$ E. on a TRUE line between Secs. 7 and 18. Ascend.
 5.00 Wagon road bears NE & SW.
 7 20 Top of spur 200 ft. above section cor. bears NE & SW.
 A house and field bear N. 18° E. about 20 chs. dist. Descend.
 10 20 Wagon road bears E & W
 15 20 Gulch 100 lks. wide 190 ft. below top of spur, course S. Ascend.
 25 20 Top of spur 400 ft. above gulch bears NW & SE. Descend.
 36 20 Same gulch 20 lks. wide 250 ft. below top of spur, course NW. Descend.
 38 84 The $\frac{1}{4}$ sec. cor. Land mountainous. Soil 3rd rate.
 Scattering oak and sycamore timber. Dense undergrowth of chaparral.
 Mountainous land 38 84 chs.

West Boundary, T 2 N, R 12 W, S B M

September 16, 7h. a.m. 1st., I set off $34^{\circ}12'$ N. on the lat. arc. $2^{\circ}21'$ N. on the Decl. arc. and determine a true meridian with the solar at the cor. to Tps. 1 and 2 N Rs 12 and 13 W, previously described. From this cor. to Tps 1 and 2 N Rs 12 and 13 W I run

NORTH on a RANDOM line along boundary

After diligent search, being unable to find any trace of old cers. along line, I return to the cor. to Tps. 1 and 2 N Rs 12 and 13 W and run

NORTH on a TRUE line between Secs. 31 and 36, thru plowed fields.

- 14 00 Leave field bears E & W. Ascend.
 32 50 Top of spur 100 ft. above Tp. cor. bears E & W. Descend.
 34 50 Ravine 10 lks wide 50 ft. below top of spur, course E. Ascend.
 39 00 Top of spur 120 ft. above ravine, bears E & W. Descend.
 40 00 Set a granite stone $20 \times 15 \times 4$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked S G F R on E face and $\frac{1}{4}$ on W face, and
 See P raised a mound of stone $1\frac{1}{2}$ ft. high 2 ft. base W of cor. dug pits
 suppl $18 \times 18 \times 12$ ins. N & S of corner 3 ft. distant.
 notes Cor. set in low sag 50 ft. below top of spur. Ascend
 43 50 Top of spur 100 ft. above $\frac{1}{4}$ sec. cor. bears N. 50° E. and S. 80° W. Descend.
 59 35 Ravine 20 lks. wide 200 ft. below top of spur, course E. Ascend,
 68 00 Top of spur, 300 ft. above ravine, bears E & W. Descend.
 76 50 Canyon 15 lks. wide 240 ft. below top of spur, course E. Ascend
 79 00 Wagon road bears E & W on top of ascent 75 ft. above canyon. Descend
 80 00 Set granite stone $26 \times 18 \times 10$ ins. ~~17~~ 17 ins. in the ground for cor. to Secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges, and raised a stone mound 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable. Stone also marked SGFR on E face. Land mountainous. Soil 1st and 3rd rate. No timber. Dense undergrowth of chemical. Mountainous land 80 chs.

- NORTH on a TRUE line between Secs. 25 and 30. Descend.
 7 00 Canyon 10 lks. wide 300 ft. below sec. cor. course N. 70° E. Ascend
 12 00 Top of spur 200 ft. above canyon bears N. 10° W & S. 10° E. Descend
 16 50 Canyon 50 lks. wide 175 ft. below top of spur, course S. 55° E. Ascend
 29 00 Old Seledad Road bears E & W
 40 00 Set a pine post 4 ft. long 5 ins. sq. 24 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S on W face and S G F R on E face, from which a Pine 30 ins. dia. bears N. $64\frac{1}{4}^{\circ}$ E. 28 lks. distant.
 marked S G F R $\frac{1}{4}$ S BT.
 No other tree within limits, raised a mound of stone $1\frac{1}{2}$ ft. high 2 ft. base W of cor. Pits impracticable.
 47 00 Top of ridge 700 ft. above canyon bears E & W. Descend.
 70 00 Ravine 20 lks. wide 500 ft. below top of ridge, course E. Ascend
 80 00 Top of spur 300 ft. above ravine, bears E & W
 Set a granite stone $20 \times 10 \times 8$ ins. 15 ins. in the ground for cor. to Secs. 19, 24, 25 and 30, marked S G F R on E face, with 2 notches on S and 4 notches on N edges, and raised a mound of stone $2\frac{1}{2}$ ft. high 4 ft. base W. of cor. 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 chs. S. of this point and set a sq. 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 NE
 R 12 W S 30 on SE
 R 18 W S 25 on SW and
 S 24 on NW faces, dug pits $36 \times 36 \times 12$ ins. E & W of post 4 ft. distant and raised on earth mound $1\frac{1}{2}$ ft. high 5 ft. base around post, alongside which I set a sycamore post, 4 ft. long 4 in. sq. 24 ins. in the ground, marked W O 61 chs. on N face, land mountainous. Soil 3rd rate. Scattering pine and sycamore timber. Dense undergrowth of chaparral. Mountainous land, 80 chs.
 Sept. 16, 1896.

See P-
 of suppl
 notes

September 17, at 7 h On Am, l.m.t. I set off $34^{\circ}14'$ N. on the Lat. arc, $1^{\circ}57'$ N on the Decl. arc, and determine a true meridian with the solar at the cor. to Secs. 19, 24, 25 and 30, previously described. From the cor. to Secs. 19, 24, 25 and 30 I run

NORTH on a TRUE line between Secs. 19, 24
 Descend through dense chaparral.
 9 00 Old Soledad Road bears E & W
 14 00 Ravine 10 lks wide 600 ft below sec. cor. course E Ascend
 18 50 Top of spur 200 ft above ravine bears E & W. Descend
 40 00 Set a granite stone $25 \times 18 \times 9$ ins. 19 ins. in the ground for
 § sec. cor. marked S G F R § on W face, and raised a stone
 mound $1\frac{1}{2}$ ft. high 2 ft. base W of cor. Pits impracticable.
 Cor. set in low sag 400 ft. below top of spur, bears E & W. Ascend
 47 00 Top of ridge 300 ft. above § sec. cor. bears E & W. Descend.
 65 00 Canyon 40 lks. wide 600 ft. below top of ridge, course E. Ascend.
 73 00 Top of spur bears E & W 450 ft. above canyon. Descend
 78 00 Canyon 20 lks wide 200 ft. below top of spur, course S. 70° E. Ascend
 80 00 Set a granite stone $22 \times 12 \times 8$ ins. 16 ins. in the ground for cor.
 to Secs. 13, 18, 19 and 24, marked S G F R on E face, with 3
 notches on N & S edges, and raised a stone mound 4 ft. base
 $2\frac{1}{2}$ ft. high W of cor. Pits impracticable. Land mountainous. Soil
 3rd rate. No timber, dense undergrowth of chaparral. Mountainous
 land 80 chs.

 19 00 NORTH on a TRUE line between Secs. 13 and 18. Ascend.
 Top of ridge bears N. 80° W. and S. 80° E. 800 ft. above last canyon
 It being impossible to chain further north on account of pre-
 cipitous mountains at this point, I set a sq. 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 cor. to cor. No. 24 on boundary of San Gabriel
 Forest Reservation, marked S G F R 24 T 2 N S 7 on NE
 R 12 W S 18 on SE
 R 13 W S 13 on SW, and
 S 12 on NW faces; dug pits $36 \times 36 \times 11$ ins.
 E & W of post, $1\frac{1}{2}$ ft. high 5 ft. base around post, alongside which
 I set a pine post 4 ft. long 4 ins. sq. 24 ins. in the ground
 marked W G 19.00 chs. on S. face.
 To obtain the dist. to the cor. to Secs. 7, 12, 13 and 18 I
 cause a flag to be set on a high peak, to the N. of this point.
 From W.G. to cor. No. 24, I run a base W. 3.83 chs. on account of
 the rough 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 N. $3^{\circ}08'$ E., giving by calculation, a
 distance of 69.97 chs. to the flag, and a total distance from cor.
 to Secs. 13, 18, 19 and 24 of
 $69.97 + 19.00$ chs. equals 88.97 chs.
 From this point I chain due S 8.97 chs. to a point 80 chs. due N. of
 cor. to Secs. 13, 18, 19 and 24, and set a granite stone $20 \times 8 \times 8$ ins.
 15 ins. in the ground for cor. to Secs. 7, 12, 13 and 18, marked
 S G F R with 4 notches on S. and 2 notches on N edges, and raised
 a stone mound 2 ft. high $3\frac{1}{2}$ ft. base W of corner. Pits
 impracticable. Cor. set at top of waterfall 75 ft. high.
 Land mountainous. Soil 3rd rate. Dense undergrowth of chaparral.
 Mountainous land 80 chs.

September 11, 1896.

West Boundary, T. 2 N., R. 13 W., S.B.M.

From the corner to Sections 7, 12, 13 and 18, I run

- 40.00 NORTH on a RANDOM line between Secs. 7 and 12.
After diligent search being unable to find any trace of old $\frac{1}{4}$ sec. cor. I set temp. $\frac{1}{4}$ sec. cor. and continue N.
- 63.40 To a point 2.12 chs. W. of closing 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 cor. No. 27 on boundary of San Gabriel For. Reservation, I set a sq. hollow ~~post~~ ¹⁶²⁰ 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.
- 2.10 S. $1^{\circ}55'$ W. on a TRUE line between Secs. 7 and 12. Descend
Gulch 10 lks. wide course N. 21° W. 40' below cor. Ascend
- 10.00 Top of flat spur 400 ft. above canyon, bears NE & SW, and along Same
- 12.00 Descend.
- 15.75 Canyon 25 lks. wide 100 ft. below top of spur, course S. 60° W. Ascend
- 23.05 Top of spur 300 ft. above canyon, bears N. 60° W. and S. 60° E. set a granite stone $20 \times 8 \times 4$ ins. 15 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face; S G F R on E face; and raised a mound of stone $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base W of cor. Pits impracticable. Descend
- 25.20 Gulch 10 lks. wide 300 ft. below $\frac{1}{4}$ sec. cor. course N. 61° W. Ascend.
- 26.50 Edge of bluff, bears E & W.
- 37.00 Mrs. Johnson's house bears N. 53° W. 16 chs. distant, Descend
Ravine 5 lks. wide course W. ascend.
- 39.50 Enter mesa bears E & W
Leave mesa, bears E & W. Descend.
- 57.00 Dry creek 20 lks. wide course SE ascend.
- 63.44 The cor. to Secs. 7, 12, 13 and 18.
Land broken and mountainous. Soil 3rd rate. No timber.
Dense undergrowth of chaparral, mountainous land 82.50 chs.

September 19, 1896.

Surveyed by William A. Sickler,
Contract of April 22, 1901.
Book 384, Part 8.

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

I commence at corner No. 13 of Rancho Tujunga.

The live oak and bearing trees have disappeared, but I am told by an old resident that the cor. as it now stands has been there for many years and its location has been checked upon by surveys from other known cors. and has been confirmed by the Courts. It is a redwood post 4 ins. sq. 1 ft. above ground marked T 13 on W face, L O I on E face set in a mound of earth and rock 6 ft. base, $1\frac{1}{2}$ ft. high, from which a live oak 30 ins. dia. bears N. 75° W. 159 lks. distant, marked T 13 W O.

April 4 I set off $34^{\circ}15'$ on Lat arc and $5^{\circ}31'$ N on Decl. arc and at 8h Om., AM., L.M.T., I determine a true meridian with the solar at this corner, from which I run S. 89° W. on RANDOM line along S boundary of Rancho Tujunga, setting temporary stations at each 40 and 80 chs.

415 00 A point 7.25 chs. N of cor. No. 14, which is a redwood post 4 ins. sq. 1 ft. above ground marked as described by the Surveyor General. In order that my stations may appear in consecutive order, I return to cor. No. 13 and run S. 85° W. on TRUE line.

Over a succession of very steep spurs and ridges of Tujunga mountain and through brush.

40 00 Set rock 20x12x12 ins. $1\frac{1}{4}$ ins. in the ground marked T $\frac{1}{2}$ M on N. face, and raise a mound of rocks 3 ft. base 2 ft. high N of rock. Pits impracticable.

60 00 Wood road course NE & SW

80 00 Set a rock 12x8x6 ins. 8 ins. in the ground, marked T 1 M on N face and S 24 on S face. Raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft high N of rock.

Land mountainous. Soil 4th rate. No timber. Mountainous land. 80 chs.

T 2 N, Rs 13 & 14 W, S B M

, North boundary Rancho San Rafael

Commencing at cor. No. 13 of Rancho Tujunga, which is corner No. 1. Rancho San Rafael, I run S. 68° W. on blank line on N boundary of Rancho San Rafael to cor. No. 5 and find that to be the correct course, I then run from cor. No. 5 on true line.

April 9 at 8h Om AM., L.M.T., I set off $34^{\circ}14'$ on the Lat. arc. $7^{\circ}25'$ N on the Decl. arc and determine a true meridian at cor. No. 5 Rancho San Rafael, which is a mound of rocks on a sharp red peak. This post had disappeared and I set a rock 18x8x6 ins. 12 ins. in ground marked S R No. 5, 1 ft. N. of mound. Thence I run N. 68° E. on TRUE line on N. boundary of Rancho San Rafael.

240 00 A boulder 2 ft. sq. 1 ft. above ground for third mile, I mark S R 3 M on S and S 19 on N faces. Raise a mound of rocks 2 ft base $1\frac{1}{2}$ ft. high S of cor. Pits impracticable. Land mountainous. Soil rocky. Dense brush. Mountainous land 160.00 chs.

270 00 Summit of Tujunga Mountain, course SE & NW

280 00 Set a rock 12x8x6 ins. 8 ins. in the ground marked SR $\frac{1}{2}$ M on S face. Raise a mound of rocks 3 ft. base $1\frac{1}{2}$ ft. high S of cor. Pits impracticable.

302 90 Cor. No. 13 Tujunga cor. No. 1 Rancho La Canada and cor. No. 1. Rancho San Rafael

Land mountainous. Soil rocky. Mountainous land 62.90 chs.

April 11, 1902.

T 2 N, R 13 W S B M

From cor. No. 11

S. 80° E. on RANDOM line on Ranch boundary, setting a temp. sta. at 40 chs. Over broken mesa.

96 00 A point 167 lks N. 10° E. of cor. #12, which is a mound of rocks without marks, I set a round elder post 4 ins. dia. 24 ins. in the ground on NE side of mound marked T 12 on SW side, Thence I run N 79° W. on a TRUE line.

56 00 Which is 40 chs. from cor. No. 11, I set a rock 16x10x8 ins. 10 ins. in the ground marked T $\frac{1}{2}$ M on S face, raise mound of rocks 2 ft. base 1 $\frac{1}{2}$ ft. high S of cor. Pits impracticable.

96 00 Cor. No. 11 Land brushy mesa. Soil 3rd rate.

From cor. No. 13 Rancho Tujunga, cor. No. 12 is visible and bears N. 39° 30' E. on TRUE line along wire fence.

11 50 Road, course E & W leave field and enter dense brush

52 00 Cor. No. 12 Land hilly. Soil 2nd rate and 3rd rate.

April 27, 1902.

(PART 9)

Resurvey E. boundary Tp. 2 N. R. 14 W. S. B. M.

Being instructed to commence my survey at the cor. to Secs. 19, 24, 25 and 30, which I am unable to find, it becomes necessary for me to resurvey a portion of the range line in order to locate its intersections with the Rancho Tujunga and San Rafael.

April 21, 1902, at 8h Om. AM., l.m.t., I set off 34° 16' on the Lat. arc, 11° 42' N. on the Decl. arc, and determine a true meridian with the solar at the cor. to Secs. 7 and 18 on the range line. This cor. is marked and witnessed as described by the Surveyor General, and is without doubt, in the place where it was located by U S Deputy Norway, as his oak bearing tree is still standing. I run SOUTH on Range Line.

Over broken brushy land.

25 00 Enter brushy mesa.

40 00 Quarter Sec. cor. said to have been set by U S Deputy Gore in his unaccepted survey. A granite rock 18x12x8 ins. in a rock mound 3 ft. base, 2 ft. high, with a similar mound on E. side. I turn the rock so the mark $\frac{1}{2}$ faces the E establishing the $\frac{1}{2}$ sec. cor. to sec. 18 T 2 N, R 13 W. As I shall soon enter Rancho Tujunga at a point to be determined later, I run across Rancho on blank line continuing to count distances from my starting point.

90 00 Road, course NW & SE. Enter broken hills.

127 00 Intersect S boundary of Rancho Tujunga at a point from which T 1 M bears S 85° W 15 chs. distant. Set a rock 14x10x6 ins. 10 ins. in ground for closing cor. to fractional secs. 19 and 24, marked CC on S and T on N faces. Dig pits 24x18x12 ins. E & W of rock on line 3 ft. and 30x24x12 ins. S. of rock 7 ft. distant. Raise a mound of earth and rock 4 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high S. of corner.

128 50 Top of ridge, course E & W. Descend.

143 00 Gulch 20 lks. wide 200 ft. below top of ridge, course W.

151 35 Intersect N boundary of Rancho San Rafael at a point from which SR 3 M bears N 68° E. 7.30 chs. distant. Set a rock 20x16x10 ins. 14 ins. in ground for closing cor. to fractional Secs. 19 and 24, marked C C on N, S R on S faces, raise a mound of rocks 3 ft base 2 ft. high N. of cor. Pits impracticable.

156 00 Top of high ridge, course E & W

160 00 Make another unsuccessful search for cor. called for.

180 00 Creek or gulch at foot of Verdugo Mountain, described in U S Deputy Norway's notes as being 75 chs. from cor. to Secs. 25, 30, 31 and 36. He says he set the cor. to Secs. 19, 24, 25 and 30, 5 chs. N. of this gulch on steep side hill facing S. I find the topography to agree exactly as a point 5 chs. N. of this creek is very steep.

At this point Norway finds the land too rough to measure further. He returns to the top of Verdugo Mountains and sets a signal for triangulation. He then proceeds N along range line to a point where he runs a base line of 10 chs. east and calculates his distance at 96.49 chs. from his signal or 67.99 chs. from this gulch. He then proceeds along range line 97.01 and establishes the cor. from which I start (cor. to Secs. 7 and 18). His measured and calculated distance from that corner to this gulch is 165 chs. My measured distance is 180 chs. I find also that the top of Verdugo Mountain cannot be seen from a point on range line 67.99 chs. N. of this gulch. I am therefore convinced that Norway made an error in his calculation of 15 chs; at a point 8.35 chs. N. of this creek, I establish closing cor. between Secs. 24 and 25, as described in my survey of subdivisions made April 16.
Land mountainous. Soil 4th rate. Mountainous land or through dense undergrowth 180 chs.

April 21, 1902.

For E boundary Sections 1 and 12, T 2 N R 14 W Sec C S 9059

NORTH on a RANDOM line between Secs. 1 and 6

At 40 chs. I found $\frac{1}{4}$ sec. cor. said to have been set by Deputy Gore, a post 4 ins. sq. in mound of rocks I turned the post so the mark $\frac{1}{4}$ S faces the E as this corner refers to Sec. 6 only.

80 00 A mound of rocks but no marks by which I could positively identify it as the cor to Tps 2 and 3 N Range 13 W but it seems to be in the right place. I set a rock 16x10x8 ins. in the mound marked with 6 notches on N, S, and E edges, raise a mound of rock 3 ft base 2 ft high E of cor. Pits impracticable. This cor. is on steep side of high mountain, and faces E. Thence I run

SOUTH on TRUE line on West boundary of Sec. 6.

Along S slope of mountain.

23 00 Wash 50 ft. deep, course SE

28 00 Across Wash

37 00 Foot of mountain and enter heavy alder and sycamore timber on banks of Tujunga Creek

40 00 Quarter sec. cor. as heretofore described.

42 00 Water of Tujunga Creek 10 lks wide course SW

43 00 Leave timber and enter nearly level land covered with rocks, boulders and brush.

45 00 Cross road, course NE & SW

45 78 Iron bench mark of the U S Geological Survey, elevation 1470 ft.

53 00 Along edge of orchard

63 00 Leave orchard and enter brush

80 00 Corner to Secs. 6 and 7.

Land, valley and mountainous. Soil 2nd and 4th rate. Mountainous land or thru heavy timber or dense undergrowth 70 chs.

May 1, 1902.

Part 10 Part of N bdy of T 2 N R 14 W

I begin the survey of the N bdy of Tp at iron post S G F R No. 33 which is also the cor. of Secs. 4 and 5.

May 2 at 8h On AM., 1 m.t., I set off $34^{\circ}18'$ on the Lat arc, $15^{\circ}14'$ N on the Decl. arc, and determine a true meridian with the solar at the above described cor. and I run thence

EAST on a BLANK line along NORTH bdy of Township.

At intersection with range line on E bdy of Tp. I establish corner to Tps. 2 and 3 N R 14 W. Set a post 3 ft. long, 3 ins. sq. in a rock mound 4 ft. base, 2 ft. high, marked C O R 14 on W T 2 N S 1 on S T 3 N S 36 on N faces with 6 grooves on N, S and W faces.

Raise a mound of rocks 4 ft. base, 2 ft. high W. of cor. from which cor. to Tps. 2 and 3 N R 13 W bears No. 17.49 chs. distant, Pits impracticable.

Thence I run West.

Surveyed by Louis Ross
Contract of Dec. 5, 1908
Book 426, Part 21.

NORTH Boundary T 2 N R 13 W S B M

Survey commenced September 16, 1909 and executed with a Dietzgen Mountain Transit No. 2377 with hor. circle reading to 1 minute, and the vertical to 2 minutes of arc, I test the transit in the field and find its accuracy satisfactory. Being unable after diligent search to find the cor. of Secs. 4, 5, 32 and 33, nor any of the other cors. on the N. boundary of Secs. 5 and 6, T 2 N R 13 W S B M, described by the Surveyor General and moreover finding topography of the N boundary of Secs. 5 and 6, T 2 N R 13 W described by the Surveyor General, to be wholly at variance with the actual topography, I begin at the BM of the U S Geological Survey, elevation 1470, described by the Surveyor General, as being on the range line between RS 13 and 14 W and 45.78 chs. S of the NW cor. of T2N R13W and here I observe Polaris, Lat $34^{\circ}18' N$ long. $118^{\circ}17' W$.

Astron. l.m.t. of observation Sept. 16, 1909	7h 46.0m
Equivalent to time of Sept. 15, 1909	31h 46.0m
U.C. Polaris, Sept. 15, 1909	13h 49.8m
Hour angle of Polaris at observation	17h 56.2m
Subtract from	23 56.1
Time augment for Table VII	5 59.9

Azimuth of Polaris at observation	N. $1^{\circ}25' E$.
I set mark 3 chs. dist. and E of Polaris	52°13'
Azimuth of mark is	N $53^{\circ}38' E$.

In the morning I turn from the mark westerly $53^{\circ}38'$ and run NORTH along the WEST boundary of Sec. 6, Desc.

20 00	Ravine SE Ascend
28 50	Cor of Tps 2 and 3 N R 14 W only, set, marked, and witnessed as described by the Surveyor General.
40 90	Main high ridge, bears SE across swale.
43 85	Small ridge bears SE Descend
44 11	Find old mound of stone, hand placed, the cor. stone is missing In order to identify with more certainty the NW cor of T 2 N R 13 W I continue further north.
56 89	W O to $\frac{1}{4}$ sec cor on E boundary of Sec 36 T 3 N R 14 W which is a boulder in place, set, marked, and witnessed as described by the Surveyor General. The distance between this W O and the mound of rocks at Stat. 44.11 agrees within 27 lks. with the corresponding distance as given by the U. S. Surveyor General, and the distance between mound of rocks at Station 44.11 and the ridge at Station 40.80 is also in close agreement with the corresponding distance as given by the U. S. Surveyor General. I am therefore assured beyond a reasonable doubt that this is the cor. established by Deputy Sickler, and described by the Surveyor General, and I reestablish it as follows:

Set a trap stone 24x12x6 ins. 20 ins. in a mound of stone for cor. of Tps. 2 and 3 N R 13 W only on E boundary of T 3 N R 14 W marked T 2 N on SE and T 3 N on NE faces, with 6 notches on N, S and E Edges, and I raise a mound of stone 5 ft base, 4 ft high E of corner, Pits impracticable.

September 16, 1909

Thence I run

East on a True line along the N boundary of Sec. 6, T 2 N R 13 W Descend broken precipices of semi-disintegrated granite.

4 50 Rocky, open canyon course SE ascend.
9 75 Ridge, 150 ft. high bears SE & NW. Descend.
32 85 Foot of very steep slope of mountain. Enter Tujunga Canyon SW
34 20 Enter high brush.
34 40 Leave high brush.
34 50 Road bears NE & SW
35 00 Enter stony wash of Tujunga, extreme flood water line
38 00 Normal high water line
39 00 Tujunga Creek 20 lks wide, course SW

September 17, 1909

N. Bdy. T 2 N R 13 W S B M

Ascend precipitous bluff.
40 00 A trapstone boulder in place 3x4x2 ft. above ground, for $\frac{1}{4}$ sec. cor. I mark $\frac{1}{4}$ in N from which an Oak 24 ins. diam. bears N 34° 30' W 98 lks. dist. marked $\frac{1}{4}$ S 31 BT.
No other tree available.
Ascend along the N slope of a high divide about 1000 ft. high
65 00 High sharp ridge bears N & S. Descend.
75 50 Deep rugged canyon course N. Ascend
80 00 Falls on 50° slope of unstable surface where no cor. would be safe.
An oak 24 ins. dia. bears S. 65° E 78 lks. dist. from true point for cor. I mark this oak for witness cor. to corner of Secs. 5, 6, 31 and 32.
W 0 T 3 N R 13 W S 32 on NE
T 2 N R 13 W S 5 on SE
S 6 on SW and
S 15 on NW faces, with 5 notches on E and 1 notch on W side

From which an

Oak 18 ins. dia. bears S 20° W. 248 lks. distant marked W 0 T 2 N R 13 W S 6 B T

No other tree available. Land mountainous.
Soil 4th rate, rocky. Timber brush, oak.

September 18, 1909.

The land E of cor. of Secs. 5, 6, 31 and 32 is broken by impassable gorges and cliffs, I therefore offset from the true point for cor of Secs. 5, 6, 31 and 32, N. 0° 01' E. 20 chs. to a point from which Bryant's house bears S 85° W. 200 lks. distant. Thence I run along the offset line EAST through Bryant's orchard.

4 00 Gully, course N enter vineyard.
 8 50 Gully, course N. leave vineyard. Ascend.
 10 20 Low broken ridge bears N & S. Descend.
 12 00 Foot of ridge, enter overgrown flat.
 24 50 Trail above S bank of Tujunga Creek bears N 75° W and S 75° E
 Descend steeply to Tujunga Wash.

September 19, 1909.

26 00 Tujunga Creek 40 lks wide course N. 65° W. Ascend.
 29 50 Leave Tujunga Wash. Ascend.
 33 50 Road, bears S. 75° E. Ascend. An uncultivated flat of about
 20 acres bears to the N, adjacent to road.
 36 50 Foot of low, broad spur.
 37 50 W brow of spur bears N & S
 40 00 Set a granite stone 12x10x10 ins. 10 ins. in the ground for
 witness to $\frac{1}{4}$ sec. cor. marked W O $\frac{1}{4}$ on N face, and raise a
 mound of stone 3 ft. base 2 ft. high N of corner. Pits impracti-
 cable. Descend.
 42 00 Foot of spur.
 43 50 Road, bears N & W. Enter stony wash of Tujunga. Sept. 20, 1909.
 47 00 Creek 40 lks. wide course S 15° W
 50 25 Leave Tujunga Wash, ascend steep, heavily overgrown, ridge.
 58 00 Summit of ridge bears N 20° W.
 Descend steeply through heavy undergrowth.
 58 75 Enter stony wash of Delta Canyon course N
 60 50 Leave stony wash of Delta Canyon, Ascend steeply through heavy
 undergrowth.
 70 00 High, sharp spur, bears N & S. Ascend along the N slope of an
 overgrown mountain 1000 ft. above the thread of the canyon.
 80 00 Offset 20 chs. S 0° 01' W. to return to the N boundary of T 2 N
 R 13 W. The true point for cor. falls in the bottom of the
 stony wash of Delta Canyon, a place quite unsuitable for a cor.
 I therefore run back N. 0° 01' E. 7.70 chs. to the crest of
 the high ridge bearing E and W forming the divide between the
 Tujunga and Delta Canyons and set a granite stone 16x8x5 ins.
 10 ins. in the ground for witness to cor. of Secs. 4, 5, 32 and
 33, marked W O on NE face, with 4 notches on E and 2 notches
 on W edges, and raised a mound of stone 3 ft. base 2 $\frac{1}{2}$ ft. high
 W of cor. Pits impracticable. Land mountainous. Soil 2nd to
 4th rate. Timber oak and chamisal brush.

September 21, 1909.

N Bdy T 2 N R 13 W S B M

From the true point for cor. of Secs. 4, 5, 32 and 33, I run
 EAST between Sections 4 and 33.
 Ascend steep NE bluff of Delta Canyon
 10 50 High ridge bears N 20° E. Descend
 19 00 Canyon, heavily overgrown, course N. 15° E. Ascend.
 22 50 Sharp, precipitous ridge, bears N & S. Descend.
 34 00 Foot of precipitous ridge,
 40 00 Set a sq. redwood post 3 ft. long 2x4 in cross sec. 2 ft. in
 the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 33 on N and 4 on S.
 faces, from which an oak 14 ins. dia. bears N. 13° W. 73 lks.
 distant marked $\frac{1}{4}$ S 33 B T
 Alder 5 ins. dia. bears S. 45° W. 114 lks. dist. marked
 $\frac{1}{4}$ S 4 B T

September 22, 1909.

55 50 Road, bears N W & S E
 57 30 Tujunga Cr 40 lks. wide course NW. Enter flat.
 61 30 Leave flat, oil well bears S about 40 lks. dist. Ascend.
 75 00 High spur, bears NW & SE. Descend.
 80 00 Canyon course S. Not a suitable place for cor. Ascend.
 84 50 Summit of brushy spur, bears N & S Set a granite stone
 18x7x7 ins. 14 ins. in the ground for witness to cor. of
 Secs. 3, 4, 33 and 34, marked W O on NE face, with 3 notches
 on E & W edges, and raise a mound of stone 2½ ft. base 2 ft.
 high W of cor.
 Land, mountainous; Soil, rocky, 3rd to 4th rate.
 Timber, oak and alder at creek, brush on mountain sides.

September 23, 1909.

From the true point for cor. of Secs. 3, 4, 33 and 34, I run
 EAST between Secs. 3 and 34.
 4 53 W O to cor. of Secs. 3, 4, 33 and 34, previously described.
 Descend.
 10 50 Gully course SW. Ascend.
 17 00 Low ridge, bears SW. Descend.
 20 50 Deep, overgrown canyon, course SW ascend.
 39 16 Summit of high mountain bears N & S as true point for cor.
 falls on a steep precipitous declivity, where no cor. would
 be safe, I set a granite rock 34x6x5 ins. 26 ins. in the
 ground, for witness to ¼ sec. cor. marked W O ¼ on N face
 and raise a mound of stone 3 ft base 2½ ft. high N of cor.
 Pits impracticable. The land to the east is extremely
 steep, broken by canyons, gullies and ravines.
 It is impassable and wholly unfit for cultivation. I
 therefore do not run farther east. Land gorges and ridges.
 Soil rocky, 5th rate. Timber, brush.

September 24, 1909.

Preliminary to the resurvey of the E bdy of Sec. 13, T 2 N
 R 13 W, S B M I locate from description and maps the high
 ridge 8.96 chs. N. of cor. to Secs. 7, 12, 13 and 18, described
 by the Surveyor General. By noting on this ridge the
 blazed underbrush, a 5 in. stump of an oak bush and clear-
 ings to the S and W I identify beyond reasonable doubt the
 furthestmost N point surveyed on this range line from which
 point the triangulation was made by Deputy Cutting, as
 described by the Surveyor General. Thence I run

South along the E boundary of Sec. 12

8 96 A partly scattered mound of rocks bears N 45° E 20 lks. dist.
 The mound is hand-placed and old clearings through the
 brush to the N, S and W are easily recognizable. The cor.
 stone described by the Surveyor General is missing, the
 ground being so steep that no set stone would be likely to
 remain long. The ground here consists of steep, broken
 precipices, covered with a thick, high, interwoven mass of
 live and dead undergrowth, making it absolutely impossible
 to run from here either N, S or W, nor can I initiate a
 triangulation from here, because the ruggedness of the
 ground prevents the accurate measurement of a reasonably
 long base.

October 10, 1909.

In the firebreak, which is a high ridge, bearing SE and NW about a mile S I cause a flag to be set, lining it in due S., thus I locate on the crest of this firebreak, the iron post No. 24 of the San Gabriel Forest Reserve, set, marked and witnessed as described by the Surveyor General.

October 11, 1909.

At the point marking the corner of Secs. 7, 12, 13 and 18, I leave a flag and go to iron post 24. On studying the actual topographic conditions, I find the triangulations described by Surveyor General to be quite impossible.

From I P 24, the notes state, a base was laid off, 3.83 chs. long due W for triangulating the high ridge 8.96 chs. N. of cor. of Secs. 7, 12 and 13 and 18, the dist. to the cor. being 61 chs. This 61 chs base was then used for measuring 2 miles and 13.85 chs. to the divide between the Arroyo Seco and Tujunga water courses.

1. The W end of a base 3.83 chs. long falls on the SW slope of the firebreak ridge; from this point none of the country to the N is visible, being obstructed by the ridge which bears NW and which is $\frac{1}{4}$ mi. thick at this point.

2. The "61.00" chain dist. is really 76.93 chs.

3. A point 2 mi. 13.85 chs. westerly of cor. of Secs. 7, 12, 13, 18 falls near the bottom of the W fork of Maple Canyon. This point is 750 ft. below the adjacent ridges, and is therefore invisible from either end of the "61" chain base.

4. The "divide" between the Arroyo Seco and Tujunga water courses is only 25 chs. W. of cor. to Secs. 7, 12, 13 and 18, and not 2 mi. and 13.85 chs.

Finding the data furnished by the Surveyor General inconsistent and impossible, I resurvey these lines.

From I P 24, I run a base N $34^{\circ}38'$ W 68.27 chs. long to point on top of firebreak, from which the flag at the cor. of Secs. 7, 12, 13 and 18, bears N $61^{\circ}51'$ E. The angle subtended by the base is $61^{\circ}51'$ that by the required distance $83^{\circ}31'$. This gives the required distance.

$$\frac{68.27 \times \sin 83^{\circ}31'}{\sin 61^{\circ}51'} = 76.93 \text{ chs.}$$

October 12, 1909.

Being unable on account of the extreme roughness to set either a true or a witness $\frac{1}{4}$ sec. cor. between Secs. 13 and 18 I return to the point for cor. of Secs. 7, 12, 13 and 18, which falls at a place where no cor. would be secure.

A boulder $24 \times 20 \times 20$ ins. 12 ins. above ground bears E 10 lks. dist. I mark it for witness to cor. of Secs. 7, 12, 13 and 18, W on NE face with 4 notches on S and 2 notches on N edged, from which a manzanita 5 ins. dia. bears N 25° W 30 lks. dist. marked W O T 2 N R 13 W S 12 BT, and I raise a mound of stone 4 ft. base 3 ft. high W of cor. No other BT's available, and pits impracticable.

Land mountainous. Soil disintegrated rock. Timber brush.

October 13, 1909.

October 12, 1909 at iron post 24, I observe Polaris.		
Astron. l.m.t. of observation Oct. 12		8h 36.0m
Equivalent to time of Oct. 11 /		32 36.0
U C of Polaris Oct. 11	12h 47.0m	
Correction to Oct. 11	39.0	12 07.7
U C of Polaris Oct. 11	12 07.7	
Hour angle of Polaris at observation		20 28.3
Subtract from		23 56.1
Time augment for Table VII		3 27.8

Azimuth of Polaris at observation N. 1°08' E.
 For this azimuth I take the direction of the base N. 34°35' W.
 referred to above.

Oaths

The new and resurveyed lines under this contract are of a fragmentary nature, and thoroughly intermingled and interdependent as to dates and order of work. At the time of the survey the number of the books of field notes and their order were quite undetermined; nor do I have more than one copy of these covers for the assistant's signatures.

For these reasons have I obtained on this cover of Book A the oath, preliminary and final, for all the work; and I refer in Books C and D, to this one.

GENERAL DESCRIPTION

This township is located on the top of the Sierra Madre Ranch of Mountains; its northern part being cut thru by the Big Tujunga Ca. This canyon is 5 to 20 chs. wide, carries water nearly always, and heavy torrents in the Spring. The stony wash carrying flood water is from 3 to 10 chs. wide, leaving but very narrow shelves of bottom land fit for cultivation. There are about 200 acres suitable, and 500 acres more or less suitable for agriculture, distributed along the canyon, and claimed by present settlers, as shown on the map. There is no other land vacant suitable for agriculture. The mountains are very steep, rugged, covered with chamisal, manzanita, oak and white thorn brush; with some scattered pine and oak in the canyon.

Owing to their extreme ruggedness, the mountains are not fit for grazing. Besides the use derived from the canyon by the present settlers, the principal fields of usefulness of the canyon are:

1. Water
2. Scenic
3. Game preserve

Being included in the Forest Reserve, it should not be further subdivided.

Louis Ross,

U. S. Deputy Surveyor

Surveyed by Henry Hancock
 Instructions of September 1, 1858.
 Book "D", Part 17.

FIELD NOTES

Of the final survey of the Rancho La Canada, J R Scott et al
 Confirmer, Henry Hancock, Deputy Surveyor, under his instruc-
 tions of September 1, 1858.

Field notes of the final survey of the Rancho Canada,
 Atras de la Canada de los Berdugos, situated in the County
 of Los Angeles, and State of California.
 Confirmed to J R Scott and Benjamin Hayes, executed by
 Henry Hancock, Deputy Surveyor, in conformity with instruc-
 tions bearing date the ____ day of December, 1858.

Commencing at a live oak tree T 13 10 ins. dia. situated in
 the south side of a pass called the Puerto Suelo of Tujunga
 which oak tree is also a cor. of the Tujunga Rancho. Thence
 Var. 13°30' E.

2	S 22½°	E. 1.64	to Sta. No.2 and drove a stake. Thence
3	S 44½°	E. 0.63	to Sta. No.3 a live oak 12 ins. dia. Thence
4	S 7½°	E. 3.16	to Station No. 4 a live oak 36 ins. dia. Thence
5	S 36½°	E. 0.87	to Station No. 5 and drove a stake. Thence
6	S 3°	E. 1.71	to Station No. 6 and drove a stake in dry bed of an arroyo, course SE along the base of the mountain Thence
7	S 24½°	E. 4.40	to Station No. 7 and drove a stake. Thence
8	S 13°	E. 14.04	to Station No. 8, a live oak 18" dia. Thence
9	S 59°	E. 4.05	to Station No. 9, a live oak 24" dia. Thence
10	S 25°	E. 2.59	to Station No.10, a live oak 12 ins. dia. Thence
11	S 10½°	E. 4.20	to Station No.11, a live oak 24" dia. Thence
12	S 78½°	E. 2.86	to Station No.12, a live oak 24" dia. Thence
13	S 50°	E. 2.79	to Station No.13, a live oak 18" dia. Thence
14	S 8°	E. 3.14	to Station No.14, a live oak 12" dia. Thence
15	S 67½°	W. 1.85	to Station No.15, a live oak 12" dia. Thence
16	S 19°	W. 3.21	to Station No.16, a live oak 6" dia. Thence
17	S 40½°	W. 7.95	to Station No.17, and drove a stake on top of spur course No. and some 4 chs. wide. Thence
18	S 79½°	W. 18.57	to Station No.18, an oak 30" dia. on top of spur, course N. 8 chs. wide. Thence
19	S 80°	E. 3.91	to Station No.19, a live oak 27" dia. Thence
20	S 70°	E. 7.00	to Station No.20, and drove a stake. Thence
21	S 75°	E. 4.57	to Station No.21, an oak tree, 36" dia. Thence
22	S 63°	E. 4.92	to Station 22, a live oak 24" dia. Thence
23	N 80°	E. 1.00	to Station No.23, a live oak 12" dia. Thence
24	N. 84°	E. 4.87	to Station No.24 and drove a stake in rocky bed of dry arroyo, course SE. Thence
25	S. 87½°	E. 2.00	to Station No.25 and drove a stake. Thence
26	S. 51°	E. 3.50	to Station No.26, sycamore 18" dia. Thence
27	S. 69½°	E. 4.00	to Station No.27, and drove a stake. Thence
28	S. 54½°	E. 12.00	to Station No.28 and drove a stake. Thence
29	S. 47½°	E. 3.50	to Station No.29, an oak 12" dia. on top of a prominent point. Thence.
30	S. 2½°	W. 5.66	to Station No.30, and drove a stake. Thence
31	S. 67°	E. 8.80	to Station No.31, on top of a point 50 ft. high, and 10 chs. wide, course N and drove a stake. Thence
32	S. 50½°	E. 9.88	to Station No.32, and drove a stake. Thence
33	S. 11°	E. 2.14	to Station No.33, and drove a stake. Thence
34	S. 48½°	E. 5.10	to Station No.34, a live oak 6" dia. Thence
35	S. 56½°	W. 2.06	to Station No.35, a live oak 24" dia. Thence
36	S. 50½°	W. 5.66	to Station No.36, and drove a stake. Thence
37	S. 40°	E. 1.83	to Station No.37, and drove a stake. Thence
38	N. 87°	E. 4.97	to Station No.38, an oak 24" dia. Thence

39	N. 12°	W. 0.59	to Station No. 39	and drove a stake. Thence
40	N. 51½°	E. 2.72	to Station No. 40	and drove a stake. Thence
41	S. 66½°	E. 4.84	to Station No. 41	and drove a stake. Thence
42	S. 43½°	E. 5.78	to Station No. 42	and drove a stake. Thence
43	N. 86°	E. 2.94	to Station No. 43	and drove a stake. Thence
44	S. 71½°	E. 16.00	to Station No. 44	and drove a stake. Thence
45	S. 57½°	E. 11.8	to Station No. 45	a sycamore 2 ft. dia. Thence (11.84)
46	N. 71°	E. 0.69	to Station No. 46	a foot of granite point on the south and drove a stake. Thence
47	S. 32°	E. 7.83	to Station No. 47	and drove a stake. Thence
48	S. 13½°	E. 4.96	to Station No. 48	an oak 12" dia. Thence
49	S. 67°	E. 1.10	to Station No. 49	and drove a stake. Thence
50	S. 13°	E. 7.39	to Station No. 50	an oak tree 24" dia. Thence
51	N. 81°	E. 1.29	to Station No. 51	and drove a stake. Thence
52	S. 82°	E. 5.66	to Station No. 52	and drove a stake. Thence
53	S. 62°	E. 4.50	to Station No. 53	and drove a stake. Thence
54	S. 23°	W. 4.58	to Station No. 54	an oak tree 12" dia. Thence
55	S. 30½°	E. 2.48	to Station No. 55	and drove a stake. Thence
56	S. 28½°	E. 3.40	to Station No. 56	, an oak 18" dia. Thence
57	S. 72°	E. 3.65	to Station No. 57	and drove a stake. Thence
58	S. 26½°	E. 6.97	to Station No. 58	, a sycamore 12" dia. Thence
59	S. 14°	W. 2.35	to Station No. 59	, an oak 12" dia. Thence
60	S. 38½°	W. 5.58	to Station No. 60	and drove a stake. Thence
61	S. 20½°	E. 1.08	to Station No. 61	and drove a stake. Thence
62	S. 38°	W. 2.40	to Station No. 62	an oak 24" dia. Thence
63	S. 84½°	W. 3.12	to Station No. 63	and drove a stake. Thence
64	S. 50½°	W. 1.16	to Station No. 64	an oak 12" dia. Thence
65	S. 59½°	W. 1.95	to Station No. 65	an oak 36" dia. Thence
66	S. 21½°	E. 1.92	to Station No. 66	and drove a stake. Thence
67	N. 76°	E. 2.10	to Station No. 67	and drove a stake. Thence
68	East	3.06	to Station No. 68	and drove a stake. Thence
69	N. 74½°	E. 2.83	to Station No. 69	and drove a stake. Thence
70	N. 62½°	E. 7.50	to Station No. 70	and drove a stake. Thence
71	N. 82°	E. 2.50	to Station No. 71	and drove a stake. Thence
72	S. 70½°	E. 2.96	to Station No. 72	, an oak 12" dia. Thence
73	S. 53°	E. 4.50	to Station No. 73	, a sycamore 9" dia. Thence
74	S. 31°	E. 3.93	to Station No. 74	, and drove a stake on right bank of arroyo 30 lks. wide course S. Thence
75	S. 27½°	E. 5.62	to Station No. 75	and drove a stake. Thence
76	S. 13½°	E. 3.03	to Station No. 76	and drove a stake. Thence
77	S. 25½°	E. 2.12	to Station No. 77	an oak 12" dia. Thence
78	S. 51°	E. 1.82	to Station No. 78	and blazed a sycamore 16" dia. Thence
79	S. 67½°	E. 344.00	to Station No. 79	and set post and charred stake in mound, on W. bank of the bottom land of the Arroyo Seco from which a sycamore 10" dia. bears N. 35° W. distant 28 lks. THIS station is Station No. 11 of the Rancho San Pascual, previously surveyed Thence, retracing the boundary of San Pascual Ro. to post, Station No. 80, on W. bank of the Arroyo Seco. This is also Station No. 10 of San Pascual Rancho. Thence
	N. 32½°	E. 18.50	to Station No. 81 of this Rancho and Station No. 9 of the "Rancho San Pascual" and set a post and charred stake in previously established rock mound on the W bank of the Arroyo Seco and near its mouth in issuing from the mountain on the north from which an oak tree 40" dia. bears N. 72½° W. distant 54 lks. another oak tree 30" dia. S. 47½° E. distant 54 lks. Thence	
	N. 60½°	W. 227.00	to Station No. 82 and set a post with charred stake in an irregular mound of rock on the south base of high and steep mountain. Thence on traverse along its southern base.	

N. $51\frac{1}{2}^{\circ}$ W. 15.89 to Station No. 83 and set a post with charred stake in an irregular mound of rock. Thence
 N. $55\frac{1}{2}^{\circ}$ W. 10.55 to Station No. 84 and drove a stake
 N. 29° W. 13.15 to Station No. 85 and drove a stake
 N. $44\frac{1}{4}^{\circ}$ W. 37.00 to Station No. 86 and drove a stake
 N. $17\frac{1}{4}^{\circ}$ W. 24.50 to Station No. 87 and drove a stake and raised a mound of rock on the west of a gully 1 ch. wide with a spring of water some 12 chs. north of crossing of line, course 8.
 N. $4^{\circ}02'E$. 23.24 to Station No. 88 and a post and charred stake in mound of rock.
 N. $70\frac{1}{2}^{\circ}$ W. 210.00 to Station No. 89, a granite rock $18 \times 12 \times 10$ ins. irregular mound of rock on the south base of high mountain. Thence retracing the boundary of Tujunga Rancho, and descending.
 S. 39° W. 52.00 To Station No. 1, or place of beginning.

GENERAL DESCRIPTION

This Rancho consists of a high broken valley lying between the Sierra Madera Mountain on the north, and the Berdugo Mountain on the south, covered principally with rank chamisal, with some scattering white and live oak, interspersed with patches of grass, and springs of water in the southeasterly portion of it.

RANCHO TUJUNGA

Field notes of the final survey of the Rancho called "Tujunga" situated in the County of Los Angeles, State of California, by Henry Hancock, Deputy Surveyor.

In conformity with instructions bearing date September 1, 1858.

Var. $13^{\circ}30'$ E.

	37.00 to Stat. No. 10, set stake.
S. 22° E.	96.00 Set stake.
S. 80° E.	96.00 To Station No. 12 and set a gray granite rock $18 \times 12 \times 10$ ins. on the SW slope of a high mountain. Thence
S. 39° W.	52.00 To live oak $24''$ dia. marked T. No. 13, from which another live oak $24''$ dia. bears N. $35\frac{1}{2}^{\circ}$ E. distant 3 chs. Station on the Puerto Suelo between Canada Tujunga and Atras de las Berdugos. Thence over the northern slope of the Berdugo Mt.
S. 89° W.	420.00 To Station No. 14 or SW corner of the Ranch and raised a mound with post and pits, as per instructions, marked T 14 on the east boundary of the Ex Mission De San Fernando. Thence retracing the boundary of said Ex Mission.

FIELD NOTES

Of the final survey of the Rancho called "San Rafael" situated in the Co of Los Angeles confirmed to Julio Berdugo executed by Henry Hancock Deputy Surveyor, under instructions from James W. Manderville, U. S. Surveyor General, for the State of California, bearing date of September 1, 1858.

Commencing at the southeast corner or Station 79 of the previously surveyed Rancho called "La Canada" (or Canada Atras de Los Berdugos) on the west bank of the Rio Hondo named in the decree of confirmation, and also Station No. 11 of the previously surveyed Rancho called "San Pascual", being a stake, from which a sycamore tree 11" dia. bears N. 85° W. distant 28 lks.

Var. 13° 40' E.

Thence

- S. 83° E. 89.50 To Station No. 2 being Sta. No. 12 of San Pascual a stake and charred stake on W side of the cn. of Rio Hondo here about 40 chs. wide, course S. Thence
- S. 12½° E. 54.00 To Station No. 3 being Sta. No. 13 of San Pascual in the canyon now about 25.00 chs. wide. Thence
- S. 29° E. 42.00 To Station No. 4 being Sta. No. 14 of San Pascual Thence
- S. 6½° W. 71.00 To Station No. 5, being Sta. No. 15 of San Pascual hereabout 30 chs. wide. Thence
- South 107.00 To Station No. 6, being Sta. No. 16 of San Pascual on SE point of high and rugged hills taking West. From which station a Live oak 40" dia. bears S. 34° W. dist. 117 lks. Thence
- S. 58° W. 1.00 Across gully 10 lks. wide, course S.
- 12.65 Intersected the San Bernardino Base Line 10.85 chs. west of corner to Secs. 5, 6, 31 and 32, in R No. 12 west of the meridian and drove stake. From which a live oak 3" dia. bears E. 38½° E. dist. 24 lks.
- 18.50 Cross road, course E.
- 26.00 To Sta. No. 7 being Sta. 17 of San Pascual a stake in mound of rocks. Thence
- S. 34½° W. 5.04 To a sycamore 10 ins. dia. on line.
- 28.50 To station No. 8 being Sta. No. 18 of San Pascual Thence
- S. 27° W. 5.00 Cross road course E.
- 6.80 To Station No. 9 being Sta. No. 19 of San Pascual Thence
- S. 22° E. 7.35 To Sta. No. 10 in center of the dry bed of the Arroyo Hondo here 30 lks. wide. Thence down same
- S. 49° W. 12.00
- S. 82½° W. 7.50 Cross road, course E.
- 19.00
- S. 18° W. 13.50 Cross road, course NE.
- 32.00
- S. 75° W. 40.00
- S. 82½° W. 22.00
- S. 2½° W. 5.00
- S. 54° W. 4.00
- S. 85° W. 4.00
- S. 67½° W. 4.00
- S. 35° W. 29.00 To Sta. No. 4 of the previously surveyed Pueblo lands of the City of L.A. on W bank of Arroyo
- S. 7½° W. 35.00 To center of arroyo, about 8 chs. wide
- S. 45½° W. 22.00 To center of arroyo about 8 chs. wide
- N. 84½° W. 9.00
- S. 59½° W. 9.00
- S. 88° W. 7.00

S. 76 $\frac{1}{2}$ ° W. 15.00
 S. 48° W. 23.00
 S. 26 $\frac{1}{2}$ ° W. 12.00 to Sta. No. 28
 S. 35° W. 12.00 to Sta. No. 29 at the junction of the Arroyo Hondo (or seco) with the river L A a point agreed upon between Don Julio Berdugo and John G. Nichols Mayor of the City of L A about 5 chs easterly on the present channel of said river, where the water is taken out for irrigation, and raise a mound of rock.
 Across which
 A sycamore tree 15" dia. bears S. 30° E. distant 44 lks. Thence up the center of the channel of the River Los Angeles, as follows:

N. 35° W. 15.00
 N. 43° W. 7.00
 N. 41° E. 28.00
 N. 16 $\frac{1}{2}$ ° W. 17.00
 N. 30° W. 12.00
 N. 60 $\frac{1}{2}$ ° W. 14.00
 N. 67° W. 7.00 To the southwest corner of a Tract called Canada De los Nogales, Thence
 N. 45° E. On east boundary of same.
 0.30 Set a witness post on left bank of river
 3.20 to top of bank
 8.20 cross road to Los Angeles course SE
 35.00 to base of hills ranging easterly
 105.30 To the NE corner of the Tract called the Canada de Los Nogales, a post in mound. Thence
 N. 45° W. 105.34 To the NW corner of the Canada de Los Nogales and set a post in mound. Thence
 S. 45° W. 37.00 Leave hills ranging E and NW
 81.66 Cross road course SE
 86.54 To bank of river bottom, and at
 105.34 To SW corner of the Canada de Los Nogales in center of the Los Angeles River. From which station
 A Willow tree on right bank of river 18" dia. bears S. 43° E. dist. 10.26 chs.

S. 78 $\frac{1}{2}$ ° W. 8.00
 N. 20° W. 4.50
 S. 88 $\frac{1}{2}$ ° W. 6.00
 N. 78 $\frac{1}{2}$ ° W. 12.50
 N. 66° W. 10.00
 N. 81° W. 5.00
 N. 53° W. 5.00
 N. 12 $\frac{1}{2}$ ° W. 6.50
 N. 39 $\frac{1}{2}$ ° W. 6.50
 N. 82 $\frac{1}{2}$ ° W. 9.00
 S. 33 $\frac{1}{2}$ ° W. 3.50
 S. 80° W. 8.00
 N. 71 $\frac{1}{2}$ ° W. 6.50
 N. 39 $\frac{1}{2}$ ° W. 4.00
 N. 6 $\frac{1}{2}$ ° E. 7.50
 N. 5 $\frac{1}{2}$ ° E. 11.00
 N. 8 $\frac{1}{2}$ ° W. 5.00
 N. 16 $\frac{1}{2}$ ° E. 4.50
 N. 49 $\frac{1}{2}$ ° W. 14.00
 N. 10° W. 6.50
 N. 43° E. 6.50
 N. 45 $\frac{1}{2}$ ° W. 4.00
 N. 59 $\frac{1}{2}$ ° W. 11.50
 N. 12° W. 5.00
 N. 30 $\frac{1}{2}$ ° W. 9.00
 N. 60° W. 5.00
 N. 13° E. 10.50
 N. 79 $\frac{1}{2}$ ° W. 5.50
 N. 29° W. 15.00
 N. 49° W. 5.00
 N. 21° W. 4.00

N. 5 $\frac{1}{2}$ °	E.	5.50
N. 42 $\frac{1}{2}$ °	E.	6.00
N. 1 $\frac{1}{2}$ °	W.	10.50
N. 30 $\frac{1}{2}$ °	E.	7.50
N. 43 $\frac{1}{2}$ °	E.	5.00
N. 32 $\frac{1}{2}$ °	W.	4.50
N. 52 $\frac{1}{2}$ °	W.	10.00
N. 35 $\frac{1}{2}$ °	W.	9.00
N. 61 $\frac{1}{2}$ °	W.	4.50
N. 28 $\frac{1}{2}$ °	W.	7.00
N. 16 $\frac{1}{2}$ °	W.	5.00
NORTH		10.50
N. 40°	E.	7.00
S. 87°	E.	3.50
N. 16 $\frac{1}{2}$ °	E.	4.50
N. 40°	W.	6.50
N. 74 $\frac{1}{2}$ °	W.	2.00
N. 17 $\frac{1}{2}$ °	W.	14.00

Having at 10 chs. on this course, intersected the S. boundary of Sec. 19, T 1 N, R 13 W of the San Bernardino Meridian 21.95 chs. E. of the $\frac{1}{4}$ sec. post on same.

N. 13 $\frac{1}{2}$ °	E.	7.00
N. 19 $\frac{1}{2}$ °	W.	10.00
N. 55°	W.	7.00
N. 26°	E.	4.00
N. 31 $\frac{1}{2}$ °	W.	8.00
N. 1°	E.	7.00
N. 51°	W.	8.00
N. 27°	W.	6.50
N. 69 $\frac{1}{2}$ °	W.	5.00
S. 25 $\frac{1}{2}$ °	W.	4.50
N. 58°	W.	3.00
S. 15°	E.	6.50
S. 62°	W.	6.00
S. 58 $\frac{1}{2}$ °	W.	2.50
N. 20°	W.	3.00
S. 74 $\frac{1}{2}$ °	W.	17.00
N. 67 $\frac{1}{2}$ °	W.	3.00
N. 26°	W.	5.00
WEST		8.00
S. 51°	W.	9.50
S. 72°	W.	7.00
N. 47°	W.	5.00
S. 75 $\frac{1}{2}$ °	W.	10.00
N. 44°	W.	5.50
N. 87°	W.	4.00
S. 48 $\frac{1}{2}$ °	W.	12.50
S. 82°	W.	13.50

And set a post on right bank for a witness cor. to the NW cor. of the "Los Feliz" Rancho 50 lks. N. 82° W. from true cor. from which a lime kiln on the N base of Sierra Cahuenga, brs. N. 82° W. dist. 4 chs. Thence

N. 11 $\frac{1}{2}$ ° W. 231.00

To a point in the plain constituting the NE cor of a tract called La Providencia, and set a post and charred stake in mound. Thence

NORTH 20.00

To a point on the S base of the Berdugo Mt S of a red rock on the S face of same pointed out by claimant as being in the direction of his NW cor and on that portion of the Berdugo Mt mentioned in the decree of confirmation as the Cerrito Colorado, and set a post in mound for NW corner. Thence

N. 79 $\frac{1}{2}$ ° E.

Through and over the mountain to Sta. 78 of the previously surveyed Rancho called "La Canada" on W. side of the Canada about 30 chs. wide. Course S.

S. 67 $\frac{1}{2}$ ° E. 324.00
344.00

And blazed a sycamore 10" dia. Thence
To place of beginning.

GENERAL DESCRIPTION

The northern portion of this Rancho is mountainous, with canyons and canadas valuable for wood.

The remaining portion is principally valley land; well suited to cultivation.

REMARKS

This Rancho is one of the few which were ceded by the Spanish Government at an early date.

Department of the Interior
Office of the U. S. Surveyor General

San Francisco, California.

May 9, 1916.

I, Frank H. Gould, U. S. Surveyor General for California,
do hereby certify that the annexed is a full, true and
correct copy of the Field Notes of survey of Fractional
Township 2 North, Range 13 West, San Bernardino Meridian,
California, as the same remain on file and of record in
this office.

In Witness Whereof, I have hereunto set
my hand and affixed my official seal the
day and date first above written.

(Signed) FRANK H. GOULD

United States Surveyor General

(SEAL)

for California.