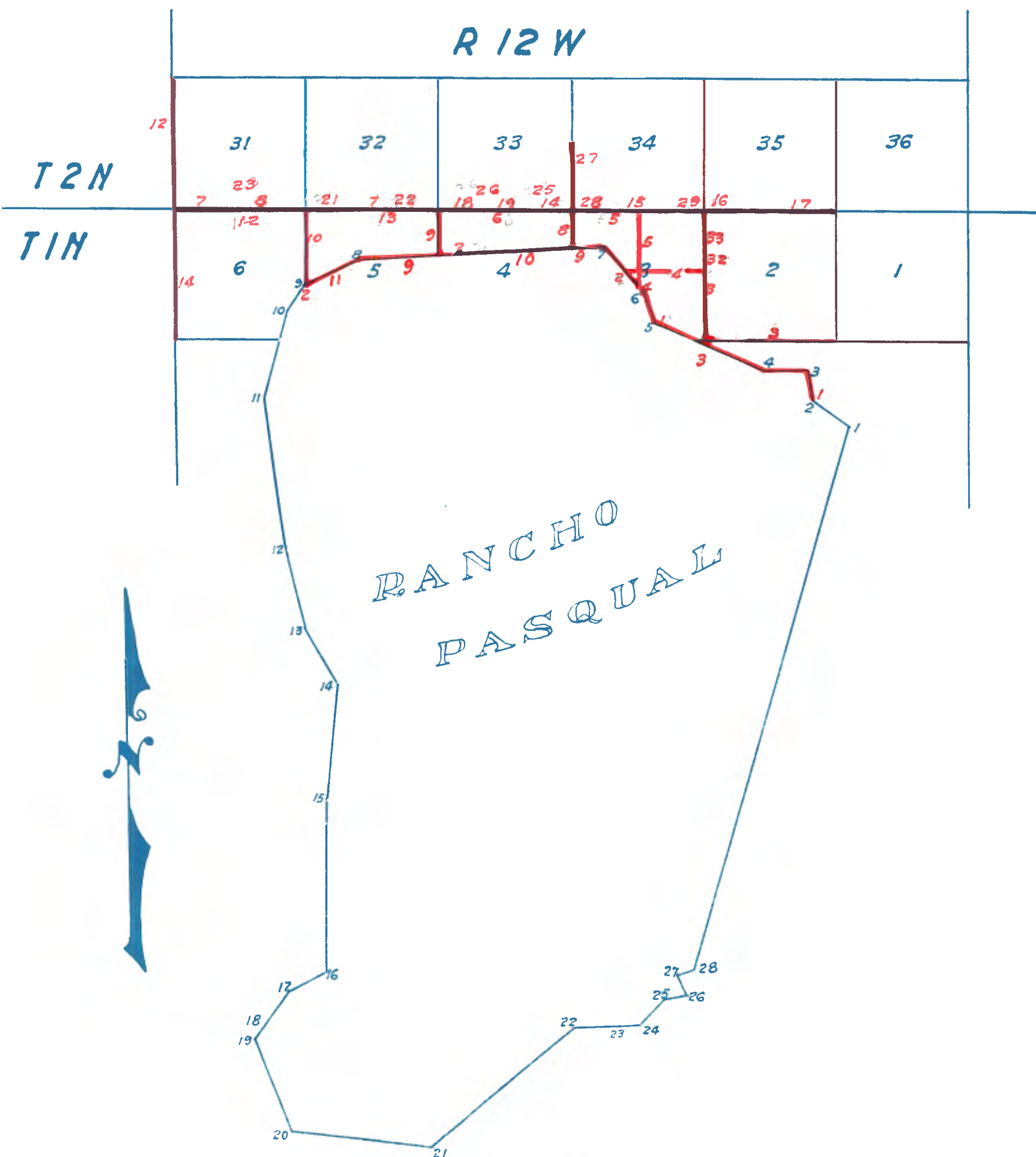


# FIELD NOTES OF SUBDIVISION OF TINR12W

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Glendale, by A.C. Johnson.



FIELD NOTES  
RANCHO PASQUAL

Commenced August 3, 1858

(E 25-6)

Wm. Hancock, D. S. under inst. of May 17, 1858 A. D.

Commencing at a black oak tree 15 in. diameter in a ravine on the west stream of water, some 8 links wide, course SE, which constitutes the SW corner of the Rancho Santa Anita, and marked it as per instructions. Var.  $13^{\circ} 40'$  E.

Thence:-

N $18^{\circ} 24'$ E.	3.00	To top of the east bank of the ravine.
	21.00	Across a stream of water 8 links wide, course SE.
	34.00	Leave Oak timber and enter plain.
	324.00	To S. bank of Canada, course SE.
	329.00	Into Same.
	340.78	To a post and stone mound the NW corner of the Rancho Santa Anita for Sta. No. 1, from which a live oak 20 in. diameter bears N $88^{\circ}$ E. 104 links.

Thence:-

N $55^{\circ}$ W.	28.00	To Station No. 2 and drove a stake.
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Thence:-

N $9^{\circ}$ W.	15.00	To Station No. 3 and marked for corner a cottonwood tree 10 in. diameter from which another cottonwood 14 in. diameter bears N $14\frac{1}{2}^{\circ}$ E. distant 18 links.
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Thence:-

N $85^{\circ}$ W.	9.00	Top of West bluff of Canada.
	27.00	To Station No. 4 and drove stake.

Thence:-

N $66\frac{1}{2}^{\circ}$ W.	60.00	Enter Canada Course SE
	74.50	To Station No. 5 and drove a stake from which an Oak 30 in. diameter bears N $12^{\circ}$ W. distant 137 links.

Thence:-

N $17^{\circ}$ W.	20.00	To Station No. 6 on west bank of Canada and leave same and set stake with irregular stone mound.
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RANCHO PASQUAL

Hancock Survey - 1858  
(E: 25-6)

Thence:-

N.  $37\frac{1}{4}^{\circ}$  W.      35.00      To Station No. 7 and drove a  
stake on the base of mountain.

Thence:-

S.  $86^{\circ}$  W.      134.00      Cross a wood road course south.  
157.50      To Station No. 8 on the east  
bank of the Arroyo Seco 60 links  
wide, course south, and set stake.

Thence:-

S.  $64^{\circ}$  W.      9.50      Cross a wood road, course south.  
35.00      To Station No. 9 and set a post 4  
feet long and squaring 5 inches  
for the northwest corner of the  
rancho at the base of the west  
bank of the bottom land of the  
Arroyo Seco from which bears an  
oak tree 40 inches diameter N.  
 $72-3/4^{\circ}$  east, distant 54 links.  
Another oak tree 30 inches diam-  
eter S.  $47\frac{1}{2}^{\circ}$  E., distant 54 links.

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Thence:-

S.  $32\frac{1}{4}^{\circ}$  W.      18.50      To Station No. 10 and set a post.

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Thence:-

S.  $15\frac{1}{4}^{\circ}$  W.      56.00      To Station No. 11 and drove a stake  
from which a sycamore tree 11 inches  
in diameter bears north  $85^{\circ}$  west,  
distant 28 links.

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SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

April 9th, 1875

West, bet. secs. 2 & 11.

Va.  $14^{\circ}15'$  E.

1800 Enter Junipero Canyon. Course S.  $30^{\circ}$  E.

23.00 To W. side of Canyon. Ascend.

30.00 To brow of Canyon on W. side. Enter flat.

40.00 To  $\frac{1}{4}$  sec. cor. bet secs. 2 & 11. Set post 2 x 4 in.  
4 ft. long, with charred stake on W. side, 1 ft. in  
ground & raised md. of earth & rocks,  $4\frac{1}{2}$  ft. dia.  
2 ft. high with pits 18 in. sq. & 12 in. deep.

80.00 To cor. to secs. 2, 3, 10 & 11. Set post 4 in. dia.  
4 ft. long, with charred stake on W. side. 1 ft. in  
ground, & raised md. of earth & stone,  $4\frac{1}{2}$  ft. dia. 2  
ft. high with pits 18 in. sq. & 12 in. deep.

Land rolling. Soil 2nd rate.

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Sept. 10th 1875

From Sta. No. 4 of Ro San Pasqual, N.  $66^{\circ}15'$  W.  
retracing said Rancho line.

Va.  $14^{\circ}15'$  E.

41.00 Int. md. at cor. to secs. 2, 3, 10, 11.

Land gently ascending. Soil 2nd rate.

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North, bet. secs. 2 & 3.

Va.  $14^{\circ}15'$  E.

17.00 To base of spur.

19.00 To top of spur. Course S.S.W.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

- 21.00 Enter ravine. Course SW.  
28.00 To base of steep hill.  
40.00 To  $\frac{1}{4}$  sec. cor. Set 2 x 4 post 4 ft. long, with charred stake, on N. side, 1 ft. in ground & raised md. of earth and stone,  $4\frac{1}{2}$  ft. dia. 2 ft. high with pits 18 in. sq. & 12 in. deep.  
Could proceed no further N. in this direction on account of the steepness of the mountains.  
Land rolling. Soil 3rd rate.

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West, on true line through Sec. 3.

Va.  $14^{\circ}15'$  E.

- 20.00 To Jesus Manons Spring about 16 chs. N. of the line.  
22.00 Enter Canyon. Course S.  
24.00 Ro W. side canyon. Ascend.  
25.75 To brow of flat. Course S.  
34.50 To Jesus Manons house 7 chs. S. of line.  
37.00 To center of ravine 2 chs. wide. Course S.  $25^{\circ}$  E.  
40.00 To center Sec. 3. Set post 4 in. dia. 4 ft. long, with charred stake on W. side, 1 ft. in ground. Raised md. of rocks  $4\frac{1}{2}$  ft. dia. & 2 ft. high.  
Land rolling. Soil 2nd rate.

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From Sta. No. 6 Ro San Pasqual retracing said Ro. line.  
N.  $37^{\circ}30'$  W.

Va.  $14^{\circ}15'$  E.

- 5.68 Int. N. & S. line through center of Sec. 3. Set post 4 in. dia. 4 ft. long, with charred stake on W. side 1 ft. in ground & raised md. with rocks, 3 ft. dia.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

& 2 ft. high. Thence,  
North, through Sec. 3.

Va.  $14^{\circ}15'$  E.

- 2.81 To center post, Sec. 3.  
14.00 To center of ravine 1 ch. wide course S.E.  
18.00 To base of hills. Course N.W. & S.E.  
26.00 To top of spur. Course S.W.  
33.00 To center of Days Canyon 1.50 chs. wide. Course S.W.  
36.00 To Day & Grahams house 3.50 chs. W. of line.  
40.00 To road at base of hill. Course S.W.  
42.81 To N. line of Township  $\frac{1}{4}$  sec. cor. N. side Sec. 3.  
Set 2 x 4 post 4 ft. long, with charred stake on  
N. side, 1 ft. in ground, and raised mound of rock  
3 ft. dia. & 2 ft. high on N. side of rocky spur  
about 30 ft. up from the ravine.  
Land rolling. Soil 2nd rate.
- 

Sept. 11th 1875

West, on Random on the N. Bdy of Sec. 3.

Va.  $14^{\circ}15'$  E.

- 3.00 To top of Spur. Course S.  
11.00 To ravine. Course S.  
20.00 To Spur. Course S.W.  
27.00 To Ravine. Course S.W.  
30.00 To Spur. Course S.W.  
36.00 To Ravine. 2 chs. wide. Course S.W.  
39.50 To Spur. Course S.W.  
40.00 To temp. cor. to secs. 4 & 3.  
Land rolling. Soil 3rd rate.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

West, on Random on N. Bdy. Sec. 4.

Va.  $14^{\circ}15'$  E.

- 1.50 To Spur. Course S.
- 6.00 To Ravine 2 chs. wide. Course S.S.W.
- 11.00 To Spur. Course S.W.
- 15.00 To Flat. Course S.E. & N. W.
- 17.00 To Ravine 2 chs. wide. Course S.
- 30.00 To Spur. Course S.
- 40.00 To temp.  $\frac{1}{4}$  sec. cor. on N. Bdy of Sec. 4.
- 46.00 To Ravine 1 ch. wide. Course S.
- 52.00 To point of Spur.
- 57.00 To Ravine 1 ch. wide. Course S.
- 61.50 To top of Spur. Course S.W.
- 69.00 To Ravine 1 ch. wide. Course S.W.
- 75.00 To top of Spur. Course S.W.
- 80.00 To temp. cor. to sec. 4, 5, 32 & 33.

Land very broken. Soil 3rd rate.

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West, on random on N. Bdy. of sec. 5.

Va.  $14^{\circ}15'$  E.

- 3.00 To center of Wests Ravine 1 ch. wide. Course S.S.W.  
Mr. Wests house at mouth of ravine about 18 chs. S.  
from line.
- 8.00 To top of ridge. Course S.W.
- 12.00 Enter flat and E. edge of Coo S. Baker's barley field  
extending about 20 chs. N. & 8 chs. S.
- 38.50 To E. brow of Millards Canyon.
- 40.00 To temp.  $\frac{1}{4}$  sec. cor. on N. Bdy Sec. 5.
- 44.00 To road. Course S.E.
- 48.00 To Millards Creek, 20 chs. wide. Course S.S.W.
- 53.00 To W. bank Millards Canyon.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

- 72.00 To the Arroyo Seco Creek, 1 ch. wide, course S.  
75.00 To top of ridge.  
80.00 To temp. cor. to secs. 5, 6, 31 & 32.

Land very rolling & broken. Soil 3rd rate.

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West, on random on N. Bdy. Sec. 6.

Va.  $14^{\circ}15'$  E.

Ascend.

- 23.00 To bow of bench. Course N. & S.E.  
38.00 To Ravine 50 lks wide. Course N.W.  
40.00 To Temp.  $\frac{1}{4}$  sec. cor. on N. Bdy. Sec. 6.  
50.00 To base of Spur. Enter Tujunga Valley.  
65.00 To cave 18 in. high 14 ft. deep at point of spur  
1.50 chs. N. of line.  
71.00 To center of ravine, 3 chs. wide. Course S.  
80.25 To a point 1.75 chs. S of the N.W. cor. of Tp.
- 

Sept. 13th 1875

From N.W. cor of Tp. S.  $89^{\circ}39'$  E. on true line  
along N. Bdy Sec. 6.

Va.  $14^{\circ}15'$  E.

- 40.25 To  $\frac{1}{4}$  sec. cor. Set stone 25x12x7,  $\frac{2}{3}$  in ground  
in md. of rock.  
80.25 To cor. to secs. 5, 6, 31 & 32. Set post 4 in. dia.  
4 ft. long, with charred stake on W. side, 1 ft. in  
ground, in md. of rock & earth,  $3\frac{1}{2}$  ft. dia. 2 ft. high,  
from which the house of Brock & Co. bears N.  $20^{\circ}$  W.  
dist. 1.12 chs. & a sycamore 20 in. dia. bears N.  $30^{\circ}$  W.  
dist. 70 chs.
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SUBDIVISION LINES OF T.1 N., R.12 W.

Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

S. 89°39' E. on true line along N. Bdy. Sec. 5.

Va. 14°15' E.

40.00 To  $\frac{1}{4}$  sec. cor. Sec. 4 x 4 redwood post, 4 ft. long with charred stake on W. side, 1 ft. in ground & raised md. of earth  $4\frac{1}{2}$  ft. dia. 2 ft. high with pits 18 in. sq. and 12 in. deep.

80.00 To cor. to secs. 4, 5, 32 & 33. Set post 4 in. dia. 4 ft. long, with charred stake on W. side, 1 ft. in ground, & raised md. of earth,  $4\frac{1}{2}$  ft. dia. 2 ft. high with pits 18 in. sq. & 12 in. deep.

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S. 89°39' E. along N. Bdy. sec. 4.

Va. 14°15' E.

40.00 To  $\frac{1}{4}$  sec. cor. Set a stone 24 x 12 x 10.  $\frac{2}{3}$  in ground in md. of rocks.

80.00 To cor. to secs. 3, 4, 33 & 34. Set post 4 in. dia. 4 ft. long with charred stake on W. side, 1 ft. in ground & raised md. of earth, 4 ft. dia. 2 ft. high with pits 18 in. sq. 12 in. deep from which a sycamore tree, 8 in. dia. bears S. 10° W. dist. 78 lks.

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S. 89°39' E along N. Bdy. Sec. 3.

Va. 14°15' E.

40.00 To  $\frac{1}{4}$  sec. cor. bet. secs. 3 & 34.

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Sept. 14th, 1875

South bet. secs. 3 & 4.

Va. 14°15' E.

2.00 To base of hill, Course E. & W.

3.40 To well 4 lks. W. of line.

4.50 To house of Robb. Orr & Bro. 4 lks. E. of line.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

- 12.00 To Dry Wash. 50 chs. wide. Course S.W.  
20.25 To temp. point.

From Sta. No. 7 of Ro San Pasqual, retracing  
said Ro line.

S.86° W.

Va. 14°15' E.

- 21.50 To the int. of the line bet secs. 3 & 4 dist. 50 lks.  
of my temp. cor. Set a post 4 in. dia. 4 ft. long  
with charred stake on S. side, 1 ft. in ground &  
raised md. of stone 3½ ft. dia. 2 ft. high for cor.  
to frac. secs. 3 & 4 making the length of this  
line 20.75 chs. Land, descending. Soil 2nd rate.
- 

South, bet. secs. 4 & 5.

Va. 14°15' E.

- 4.00 To bank of deep arroyo. Course S.W.  
17.00 To S.E. bank of same.  
27.00 To point near the intersection of N. line of Ro.  
San Pasqual. Set temp. pt.
- 

From Sta. No. 8 of Ro San Pasqual. N. 86° E.  
Retracing said Ranch line.

Va. 14°15' E.

- 50.42 Int. the lines bet. secs. 4 & 5, 36 lks. S. of my  
temp. cor. Set a post 2 x 4 in. 4 ft. long with  
charred stake on N. side, 1 ft. in ground &  
raised md. of earth & stone 4½ ft. dia. with pits  
18. in. sq. & 12 in. deep for cor. to frac. secs. 4 & 5  
making the length of this line 27.36 chs.  
By tabling up my connection at this point I

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

found I had either made a misclosure or else the distance between Stations 7 & 8 of Ro San Pasqual was too short and in order to test my work, I ran thence, N. 86° E.

Va. 14°15' E.

- 80.58 Int. the md. on the N. Bdy. of Ro San Pasqual on the line bet. secs. 3 & 4. Hence, I find that the distance bet. Sta. 7 & 8 of Ro San Pasqual is 152.50 chs. instead of 157.50 chs. as given in the Patent, or 5.00 chs. too short.  
Land, rolling, Soil 2nd rate.
- 

Sept. 15th 1875

South, bet. Secs. 5 & 6.

Va. 14°15' E.

- 1.00 To base of Spur. Course S.E.  
15.00 To top of Spur. Course S.W.  
22.00 To base of hill. Course E. & W.  
27.00 To Wm. Muth Raasmussen's house 10 chs. E. of line.  
40.00 To  $\frac{1}{2}$  sec. cor. set 2 x 4 post, 4 ft. long, with charred stake on S. side, 1 ft. in ground, & raised md. of earth & stone  $4\frac{1}{2}$  ft. dia. & 2 ft. high with pits 18 ins. sq. & 12 in. deep.  
46.00 To point near the intersection of N. Bdy. of Ro San Pasqual.
- 

From Sta. No. 9 of Ro San Pasqual, retracing said Rancho line, I run, N. 64° E.

Va. 14°15' E.

- 1.80 To intersection of line bet. Secs. 5 & 6 at a point 60 lks. S. of my temp. point. Set 2 x 4 post 4 ft.

SUBDIVISION LINES OF T.1 N., R.12 W.  
Goldsworthy - 1875 (Vol. 162:31 5-12)

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Chains

long with charred stake in E. side, 1 ft. in ground  
& raised md. of earth & stone, 4 ft. dia. 2 ft. high  
for a cor. to frac. secs. 5 & 6, making the whole  
length of this line 46.60 chs.

Which completed the survey of all the  
surveyable land in this Township the remainder being  
too rough & broken to survey.

John Goldsworthy.

U.S. Dep. Surveyor

REPORT

The land in this Township is situated along the south  
base of the Sierra Madre or Coast Range of Mountains.

The land is mostly rough and broken, with  
the exception of a few patches of good agricultural  
land at the mouth of the canyons.

Watered by small springs arising from the  
mountains and occupied mostly by Bee-men.

There is only a small amount of wood  
scattered through the canyons.

John Goldsworthy.

U.S. Dep. Surveyor

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:12 - 10, 11)

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I shall now proceed to examine the criticism other  
than those in relation to Tp. 2 N., R. 14 W., S. B. M.

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June 12, 1897: At 8h 6m A.M., l.m.t., I set off  
34° 12' north, on the lat. arc 23° 13' N. on the decl. arc  
and determine a true meridian with the solar at the corner  
to township 1 and 2 N., Rs. 12 and 13 west.

p.95 part 8  
See P.87 of  
orig. notes

W. Bdy. section 31, T.2 N., R.12 W.

I have re-examined and re-surveyed said line and  
find as follows:

By new measurement, I make the north half of said  
line 40.14 chains, and south half of said line, 39.94 chs.

This corresponds with my original measurement as near  
as two sets of chainmen can make it over such rough ground.

The examiner found the course of the south half  
N.0°21' E., and the north half, N.0°41' E. I made a care-  
ful examination and could not find the course otherwise  
than north and south, and will ask that it be reported  
upon by the examiner.

At the quarter section corner, pits should have been  
noted in my field notes.

p.95 part 8  
See p.87 of  
orig. notes

Therefore, P.87 of orig. notes, Line 34 instead  
of "pits impracticable read dig pits 18 x 18 x 12 inches,

p.95 part 8  
See P.89 of  
orig. notes

north and south of corner, 3 feet distant.

Upon re-examination I found earth and stone  
mound around iron corner No. 23.

p.92 part 8  
See P.85 of  
orig. notes

South Boundary of Section 31.

I re-measure the line and found the west half,  
39.83 chains. The land along this line is so  
extremely rough and broken, over cliffs and landslides,  
that I regard this measurement as close as possible for  
two sets of chainmen to get over such a rough line.

June 12, 1897

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:12 - 10, 11)

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San Gabriel Forest Reservation.

Township 2 north, range 12 west, S. B. M.

June 14, 1897: At 7h.54m. A.M. l.m.t., I set off  
34°12' on the lat. arc; 23°19' N. on the decl. arc; and  
determine a true meridian with the solar at the corner  
to sections 5, 6, 31 and 32, on south boundary of T.2 N.,  
R.12 W.

p.89 part 8  
p.91 " 8

See P.84 of  
orig. notes

Found both bearing trees to the corner to  
sections 5, 6, 31 and 32, although the Examiner  
reported but one. As the post originally set at this place  
was rather crooked, I set a new one, properly marked.

$\frac{1}{4}$  sec. c or. between sections 5 and 32 on south  
boundary T. 2 N., R. 12 W.

p.88 part 8

See p.83 of  
orig. notes

The Examiner reported the tree marked "S. G. F. R."  
this is a mistake on his part, as the oak, which  
bears south 89 $\frac{1}{2}$ ° W., is marked  $\frac{1}{4}$  S. B. T., but is not  
marked S. G. F. R. as it is not inside the reservation.

p.81 part 8

See P.76 of  
orig. notes

Corner No. 21

I found mound around this corner.

Corner No. 17.

p.79 part 8

See p. 76 of  
orig. notes

I found both bearing trees to corner No. 17, but  
did not find the marks "S. G. F. R." on but one of them,  
as stated in my field notes.

June 14, 1897

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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Chains

73.50 Top of spur, 700 feet above last gulch, bears N. and S.  
Descend.

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

Land mountainous.

Soil third rate.

Scattering sycamore and oak timber.

Dense undergrowth of chaparral.

Mountainous land, 78.50 chains.

September 11, 1896

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

I set off  $3^{\circ} 53'$  north on the decl. arc; and at 12 h. 0 m., 1. m. t., observe the sun on the meridian; the resulting lat. is  $34^{\circ} 12'$  north.

To establish corner 21 on boundary of San Gabriel Forest Reservation at this point in place of the post, I set a square, hollow, iron post, filled with cement etc. 3 feet long the sides 4 inches wide, at the top increasing to 12 inches wide at the bottom, 12 inches in the ground.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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(P.11 part 12)  
See P. 8  
of Supp'l  
Notes

marked S. G. F. R. 21, T. 2 N., S. 3 $\frac{1}{4}$  on northeast,

R. 12 W., S. 3 on southeast.

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

S. 33 on northwest faces, dug pits 36 x 36 x 12

inches, north and south of post, 4 feet distant,

and raised a mound of earth 1 $\frac{1}{2}$  feet high, 5 feet

base around post.

Thence I run

North 89° 31' east on a random line, between  
Sections 3 and 34.

38.25 To a point 65 links north of old quarter section corner,  
which is a post set firmly in the ground in a stone mound  
which I rebuilt, 1 $\frac{1}{2}$  feet high, 2 feet base.

The marks on the post being partly obliterated, I  
remark same S. G. F. R.  $\frac{1}{2}$  S. on north face; from which  
bears

a live oak, 10 inches dia. south 84-3/4° west,

76 links distant, which I mark  $\frac{1}{2}$  S. B. T.

Thence I run

North 89° 31' west on a true line between  
sections 3 and 34.

Ascend.

0.25 Top of spur, bears northeast and southwest.

Top of dome of Mt. Lowe hotel, bears north 60° 30' east.

The smokestack on power house, bears north 53° 45' east.

Descend.

17.75 Canon, 50 links wide, 500 feet below top of spur, course  
south 20° west.

Ascend.

22.25 Top of spur, 100 feet above canon, bears north and south

Descend.

33.50 Sycamore canon, 100 links wide, 300 feet below top of  
spur, course southwest.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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Chains

Hamblin's house and barn are in the mouth of this canon,  
about 7.00 chains distant.

Ascend.

- 37.60 Top of spur, 100 feet above canon, bears north and south  
Top of dome of Mt. Lowe hotel, bears north  $74^{\circ} 31'$  east.  
The smokestack on power house, bears north  $70^{\circ} 51'$  east.  
Descend.

- 38.25 The corner to sections 3, 4, 33 and 34.

From the quarter section corner I run

East on a true line between sections 3 and 34.

Descend.

- 13.75 Cross Las Flores canon, 50 links wide, 600 feet below  
quarter section-course south.

Ascend Mt. Lowe.

- 30.50 Top of spur of Mt. Lowe, 1000 feet above canon, bears  
north and south.

Descend.

- 33.50 Trail to Mt. Lowe hotel, bears south and northeast.  
Pavillion at foot of incline railroad in Rubicon canon,  
bears south  $61^{\circ}$  east about 20.00 chains distant.

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

a live oak tree 8 inches dia.

W. C. T. 2 N., S. 35, S. G. F. R. on northeast.

R. 12 W. S. 2 on southeast,

T. 1 N., S. 3 on southwest and

S. 34 on northwest sides, with 2 notches on

east and 4 notches on west sides, for witness cor-  
ner to sections 2, 3, 34 and 35;

dug pits 18 x 18 x 12 inches in each section,

5½ ft. dist. and raised an earth md. around tree.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

Chains

Continue descent.

41.75 The true point for corner to sections 2, 3, 34 and 35,  
Land Mountainous.

Soil third rate.

Scattering sycamore and oak timber.

Dense undergrowth of chaparral.

Mountainous land, 80.00 chains.

-----

East on a true line between sections 2 and 35.

Continue descent.

12.00 Incline Railroad from Mt. Lowe hotel, to the pavillion,  
bears northwest and southeast.

37.10 Foot of descent 700 feet below section corner, bears  
north and south.

Ascend abruptly.

40.00 The true point for quarter section corner falls on steep  
mountain side, impossible to mark, I therefore continue  
east.

59.15 Top of Grissley Peak, bears north and south.

Set a granite stone 24 x 17 x 11 inches 18 inches in  
the ground, for witness to quarter section corner,  
marked W. C.  $\frac{1}{4}$  on north face and raised a stone mound,  
1 $\frac{1}{2}$  feet high, 2 feet base north of corner.

Pits impracticable.

Descend.

See P.14,  
part 12 of  
Suppl.notes

70.60 The corner to sections 1, 2, 35 and 36, not being a suit-  
able place to make corner No. 20 on boundary of San Gabriel  
Forest Reservation, on account of the precipitous character  
of the land.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

Chains

Land mountainous.

Soil Third rate.

No timber.

Dense undergrowth of chaparral.

81.16

Mountainous land, 85.23 chains.

-----  
From the corner to sections 3, 4, 33 and 34, I run  
North 89°39' west on a random line between sections  
4 and 33.

40.37 To a point 53 links north of quarter section corner.  
where I found a portion of an old stone mound, but no  
other trace of corner,  
to reestablish same, I set a sandstone 20 x 12 x 10 inches  
15 inches in the ground marked  $\frac{1}{2}$  on north face; dug pits  
18 x 18 x 12 inches, east and west of stone, 3 feet dist.  
and raised a mound of earth, 1 $\frac{1}{2}$  feet high, 3 $\frac{1}{2}$  feet base,  
north of corner, I also marked stone, S. G. F. R. on  
north face;  
Thence I run

North 89°36' east on a true line between  
sections 4 and 33.

Descend.

2.97 Gulch, 20 links wide, course south 20° west.

Ascend.

10.87 Top of Spur, 200 feet above quarter section corner, bears  
north and south.

Descend.

15.27 Wagon road bears north and south.

31.97 Gulch, 5 links wide, course south 10° west, 700 feet below  
top of spur.

Ascend.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

---

Chains

- 34.27 Mouth of tunnel bears north, 15 links distant.
- 37.50 Shaft bears north, 15 links distant.
- 38.97 Top of spur, 200 feet above gulch, bears north and south.  
Descend.
- 40.37 The corner to sections 3, 4, 33 and 34, in low sag  
between spurs, 100 feet below top of spur.  
From the quarter section corner, I continue north 89°  
39' west.
- 40.00 To a point 77 links north of corner to sections 4, 5,  
32 and 33 where I found a portion of an old post, lying  
on the ground, some of the marks legible but no other  
trace of corner.  
To remark same, I set a granite stone, 22 x 14 x 10  
inches, 16 inches in the ground, marked S. G. F. R. on  
north face; 4 notches on east and 2 notches on west  
edges; and raised a mound of stone, 2 feet base, 1½ feet  
high, west of corner.  
Fits impracticable.  
Thence I run  
North 89° 15' east on a true line between  
sections 4 and 33.  
Ascend.
- 1.57 Top of spur, bears north and south.  
Descend.
- 5.20 Gulch, 4 links wide, course south.  
Ascend.
- 7.67 Top of spur, 250 feet above section corner, bears north  
and south.  
Descend.
- 14.67 Gulch, 25 links wide, 170 feet below top of spur, course  
south. Ascend.
- 21.37 Top of spur, 400 feet above gulch, bears north and south.  
Descend.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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Chains  
25.07 Gulch, 4 links wide, course south 20° west.  
Ascend.  
27.17 Wagon road on top of spur, bears north and south.  
Descend.  
32.37 Gulch, 10 links wide, course south and continue descent.  
40.00 The quarter section corner.  
Land mountainous.  
Soil third rate.  
No timber.  
Dense undergrowth of chamisal.  
Mountainous land, 80.37 chains.

Sept. 14, 1896

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September 15, at 7h. A. M., 1. m. t., I set off 34° 12' north, on the lat. arc; 2° 43' north on the decl. arc; and determine a true meridian with the solar, at corner to sections 4, 5, 32 and 33, previously described.

From the corner to sections, 4, 5, 32 and 33, I run North 89° 39' west on a random line between sections 5 and 32.

40.13 To a point 195 links south of quarter section corner, where I found traces of old earth mound and pits, but no post.

To reestablish corner, I set a redwood post, 3 feet long 3 inches square, 24 inches in the ground, marked S. G. F. R.  $\frac{1}{4}$  S. on north face; from which bear a live oak, 8 inches dia. north 4° east.  
112 links distant.

P.11 part 12 marked S. G. F. R.  $\frac{1}{4}$  S. B. T.,  
See P.8  
of Suppl. a live oak, 6 inches dia. south 89 $\frac{1}{2}$ ° west,  
Notes. 55 links distant, marked  $\frac{1}{4}$  S. B. T.

Thence I run

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

---

Chains

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

Descend.

- 3.03 Enter vineyard, bears north and south.
- 8.73 Leave vineyard, bears north and south.
- 11.03 Wagon road, bears north and south.
- 11.93 Wire fence, bears N. & S. about 20.00 chains.
- 21.73 A wire fence, bears north, east and south.
- 29.53 Gulch, 4 links wide, 300 feet below quarter section  
corner, course south.
- Ascend.
- 34.03 Top of spur, 170 feet above gulch, bears north and south.
- Descend.
- 37.33 Gulch, 10 links wide, 100 feet below top of spur, course S.
- Ascend.
- 40.19 The corner to sections 4, 5, 32 and 33.  
From the quarter section corner, I continue N  $89^{\circ} 39'$  west.
- 39.40 To a point 73 links south of corner to sections 5, 6,  
31 and 32 where I found a badly decayed post, in stone  
mound, partly destroyed; no bearing tree, as described  
in original notes.

P.11 part 12  
See P.8  
of suppl.  
Notes.

To reestablish corner, I set a sycamore post, 3 feet long,  
4 inches square, 24 in. in the ground, marked S. G. F. R.

T. 2 N., S. 32 on northeast,  
R. 12 W., S. 5 on southeast,  
T. 1 N., S. 6 on southwest, and  
S. 31 on northwest faces; with 6 notches on east  
and 1 notch on west edges; from which bears  
a live oak, 4 inches dia. south  $22^{\circ} 20'$  east,  
21 links distant,  
marked T. 1 N., R. 12 W., S. 5 B. T.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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Chains

A live oak, 4 inches dia. south  $76-3/4^{\circ}$  west,  
15 links distant,  
marked T. 1 N., R. 12 W., S. 6 B. T.,  
a sycamore, 6 inches dia. north  $39^{\circ} 34'$  west,  
8 links distant,  
marked T. 2 N., R. 12 W., S. 31, S. C. F. R. B. T.  
No other tree within limits; raised a mound of stone  
2 feet base  $1\frac{1}{2}$  feet high west of corner,  
pits impracticable.  
I destroy old corner.  
Thence I run

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

Through Arroyo Saco.

- 6.63 Stream, 2 links wide, course southeast.  
9.43 Wagon road, in bed of arroyo, bears northwest and southeast.  
19.53 Leave arroyo, bears northwest and southeast.  
Ascend.  
22.03 A cluster of residences, bears north about 25.00 chains  
distant.  
24.43 Telephone line, bears north, west and south, on mesa,  
75 feet above canyon and over mesa.  
26.03 Wagon road, bears north, west and south.  
28.43 Wagon road, bears north and south. Leave mesa and descend.  
33.83 Stream, in bottom of Millard's canyon 4 links wide, course  
south and across canyon.  
37.00 Leave canyon and over broken land; descending.  
39.41 The quarter section corner.  
Land rough and broken.  
Soil third and first rate.  
Timber of oak.  
Dense undergrowth of chamisal.  
Mountainous land, 79.53 chains.

FOREST RESERVE BOUNDARY  
NORTH BOUNDARY OF T.1 N., R.12 W.  
Cutting - 1896 (Vol. 0:8 - 81 - 90)

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Chains

P.11, part 12  
See P.7  
of Suppl.  
Notes.

From the corner to sections 5, 6, 31 and 32, I run  
North  $89^{\circ}39'$  west on a random line between sections  
6 and 31.

35.95 To a point 53 links north of quarter section corner,  
which was a decayed post, in a stone mound, in bad con-  
dition. I destroyed old corner and to remark same, set  
a granite stone, 20 x 12 x 10 inches 15 inches in the  
ground marked S. G. F. R.  $\frac{1}{4}$  on north face; dug pits 18 x  
18 x 12 inches east and west of stone, 3 ft. dist. and  
raised a md. of earth,  $1\frac{1}{2}$  ft. high,  $3\frac{1}{2}$  ft. base, north of  
corner.

Thence I run

North  $89^{\circ}30'$  east on a true line between  
sections 6 and 31.

Descend over rough washes.

3.95 Gulch  $\frac{1}{4}$  links wide, course north  $60^{\circ}$  west.

Ascend.

11.95 Top of west bank of Arroyo Seco, course southeast and  
descend into same

35.95 The corner to sections 5, 6, 31 and 32.

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

39.85 To a point  $\frac{1}{4}$  links south of corner to Tp 1 and 2 north,  
ranges 12 and 13 west, where I found a portion of an old  
stone mound.

To remark corner and to establish corner No. 22, on bdy  
of San Gabriel Forest Reservation, I set a square, hollow iron  
post, filled with cement, 3 ft. long the sides,  $\frac{1}{4}$  in. wide  
at the top, increasing to 12 in. wide at the bottom, 12 in.  
in the ground, marked S. G. F. R. 22,

T. 2 N., S. 31 on northeast,

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

SOUTH BOUNDARY OF T.2 N., R.12 W.

McPherson - 1903 (Vol. 394:6 1-3)

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Survey executed with a W. and L. E. Gurley R.R. transit having a  $4\frac{1}{2}^N$  needle. Transit in thorough adjustment. Chain used was a 100 link surveyor's chain, which I tested with a standard steel tape and found correct.

On account of the high mountains to the north Polaris is not visible from the S.E. corner of section 33 (the point designated in my instructions as the point at which to begin the survey). I therefore select a suitable point on the mesa lands some distance below and observe Polaris with the transit at its eastern elongation and drive nails to establish the line until morning. The observation was taken in Latitude  $34^{\circ} 12'$  N. Longitude  $118^{\circ} 00'$  west, as per contour maps of the U. S. G. S. This will make Polaris at its eastern elongation  $1^{\circ} 28'$  E. From this line I run the following angle line -

$81^{\circ} 51'$  Right to a point,

$81^{\circ} 12'$  left to a point,

$56^{\circ} 52'$  Left to a point,

in the south line of section 33, between the post at the S.E. corner and the stone marking the quarter post, this point having been established by putting the transit in line between the iron post and a flag at the quarterpost. At this point I turn  $35^{\circ} 34'$  left from last line to section line, which makes the section line S.  $89^{\circ} 41'$  W.

June 3, 1903. I start at iron post S.E. corner section 33, T.2 N. R.12 W. S.B.M. S. $89^{\circ} 41'$  W. over mountainous land, covered with dense undergrowth.

SOUTH BOUNDARY OF T.2 N., R.12 W.

McPherson - 1903 (Vol. 394:6 1-3)

---

Chains

Ascend.

1.35 Spur from mountain, bearing S.W. Descend.

6.20 Cross mouth of tunnel, bearing N.80° E.

7.50 Cross small water way 5 links wide bearing S.15°W.  
Ascend along broken ground.

13.70 Stone retaining wall.

14.00 Spur bearing south, descend.

18.25 Cross small water way 10 links wide, course S.W.

23.80 Leave dense undergrowth.

24.00 Wagon road, course N. and S. and enter cultivated  
land which extends E. about 2 chains.

29.00 Leave cultivated land on edge of arroyo bluff.  
June 4, 1903.  
Enter dense undergrowth and descend bluff.

30.60 Bottom of steep bluff.

36.50 Cross water way 20 links wide, course S.20°W.

37.50 Foot of steep bluff, ascend.

38.40 Top of steep bluff, still ascend.

40.18 Quarter section corner between sections 4 and 33  
marked by stone as described in Field Notes of  
Lewis H. Cutting, Deputy Surveyor, contract of  
January 24, 1896.

I now project the line I have just run from  
the iron post to the quarter corner, forward in a  
straight line to see how it will miss the section  
corner at S.W. corner of section 33 and find that  
it misses the corner 30 links to the south instead  
of 24links to the north, as it should, according  
to the notes of Lewis R. Cutting, January 24, 1896.  
My line is projected with the transit by taking back  
sight, from the quarter corner on a flag in line

SOUTH BOUNDARY OF T.2 N., R.12 W.

McPherson - 1903 (Vol. 394:6 1-3)

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1.35 chains from iron post at S.E. corner of section. My instrument is in adjustment as proved by reversing in sight, so my line is correct. To hit the S.W. corner of section I must, therefore, run from the quarter corner N.  $89^{\circ} 53'$  W.

Starting at quarter post, running N.  $89^{\circ} 53'$  W.

- 0.50 Summit of ridge bearing S.  $20^{\circ}$  W. Descend.
- 4.30 Steep descent.
- 5.50 Bottom of steep descent.
- 9.00 Cross old wagon trail, bears S.  $10^{\circ}$  W.
- 11.15 Cross small gulch, 10 links wide, course S.  $20^{\circ}$  W. Ascend.
- 12.35 Trail bears S.  $10^{\circ}$  W.
- 14.00 Wagon road bears S.  $10^{\circ}$  W. Descend.
- 15.80 Cross gulch 20 links wide, course S.  $20^{\circ}$  W. Ascend.
- 20.00 Edge of steep cliff, bearing S.  $30^{\circ}$  W. Descend.
- 20.50 Foot of steep cliff, continue to descend over broken ground.
- 25.80 Gulch 20 links wide, course S. for about 80 links, then turning nearly west for 2 chains, then turning S.W. Ascend over broken ground.
- 38.00 Descend.
- 40.06 Section corner sections 4, 5, 32 and 33, where I find stone marked as described in Field Notes of Lewis H. Cutting, Deputy Surveyor, contract of January 24, 1896. All of the south line of section 33, with the exception of the small piece between chains 23.80 and 29.00 along the S. E. quarter, is broken foot

SOUTHERN BOUNDARY T.2 N., R.12 W.  
Friel - 1906 (Vol. 410:14 5 - 8)

Chains

For the testing of the transit and solar, see Book A.

In order to locate the misclosure in Sec. 34, I run  
the following lines:

At 8h 5m a. m., l. m. t., I set off  $34^{\circ} 12'$  N. on  
lat. arc;  $16^{\circ} 18'$  N. on decl. arc; and determine  
a meridian with the solar.

From the iron post S. G. F. R. 21 (the cor. of  
Secs. 3, 4, 33 and 34), I run  
North on a random line.

40.30 To a point 7 lks. E. of  $1/4$  Sec. cor. bet. Secs. 33  
and 34, previously described.

Thence I run

S.  $0^{\circ} 06'$  E. on a true line bet. Sec. 33 and 34,  
Descend through dense scrub oak and white thorn.

15.45 A ravine, 25 lks. wide, course S.  $65^{\circ}$  W.; ascend.

16.15 A trail, course N. E. and S. W.

20.40 Top of ascension; descend.

27.60 Same trail, course S. E. and N. W.

28.70 A gulch, 20 lks. wide, course N.  $75^{\circ}$  W. ascend.

30.10 Same trail, course N. E. and S. W.

32.05 Top of ascension; descend.

33.35 A trail, course E. and W.

34.70 Ascend.

35.10 A trail, course N. E. and S. W.

36.80 Top of spur, bears W., descend.

40.30 The iron post, S. G. F. R. 21 and common to Secs.  
3, 4, 33 and 34.

Land, mountainous,

Soil, rocky; 4th rate.

Dense undergrowth, scrub oak and white thorn.

Mountainous land, 40.30 chs.

August 8, 1906

SOUTHERN BOUNDARY T.2 N., R.12 W.  
Friel - 1906 (Vol. 410: 14 5 - 8)

Chains

Aug. 9;

At 8h 30m a.m., l. m. t., I set off  $34^{\circ} 12'$  N.  
on lat. arc.;  $16^{\circ} 1'$  N. on decl. arc; and determined  
a meridian with the solar.

From iron post S. G. F. R. 21 and common to Secs. 3,  
4, 33 and 34.

I run

S.  $89^{\circ} 31'$  E. on a random line bet. Secs. 3 and 34.

32.28 To a point 98 lks. N. of  $1/4$  sec. cor., which is a  
6 x 6 Pine post, 12 ins. above ground, marked and  
witnessed as described by Surveyor General in the  
boundary survey of the San Gabriel Forest Reservation.

Thence I run

N.  $87^{\circ} 47'$  W. on a true line bet. Secs. 3 and 34.

.30 Top of a spur, bears S. W.

Descend.

17.30 Canon, 55 lks. wide, course S.  $20^{\circ}$  W.

Ascend.

21.40 Top of a spur, bears S. descend.

27.00 Sycamore canon, 100 lks. wide, course S.W.

Ascend.

31.50 Top of a spur, bears S.

32.31 The cor. of Secs. 3, 4, 55 and 34.

Land, mountainous.

Soil, rocky; 4th rate.

Dense undergrowth; scrub oak.

Mountainous land, 32.31 chs.

From the 6 x 6 <sup>pine</sup> post, the  $1/4$  sec. cor. as established  
by Dept. Cutting.

East on a random line.

9.61 To a point 22 likns N. of old stone mound (and identi-  
fied by adjoining land owner) which I take to be

SOUTHERN BOUNDARY T.2 N., R.12 W.  
Friel - 1906 (Vol. 410:14 5 - 8)

Chains

the old  $1/4$  sec. cor. established by Deputh Goldsworthy in the survey of T.2 N., R.12 W., in 1875. I destroy all traces of old  $1/4$  sec. cor. and rebuild the same by setting a granite stone  $30 \times 10 \times 8$  ins., 22 ins. in the ground for  $1/4$  sec. cor. marked  $1/4$  S. on N. face and raised a mound of stone  $2-1/2 \times 2 \times 2$  ft. N. of cor. pits impracticable. An oak, 7 ins. in dia. bears N.  $75^{\circ} 30'$  W. 110 lks. dist. marked  $1/4$  S.  $3/4$  B.T.

Thence I run

N.  $88^{\circ} 41'$  W. on true line bet. Secs. 3 and  $3/4$

Ascending.

9.62 To the  $1/4$  sec. cor. previously described.

Land, mountainous.

Soil, rocky; 4th rate.

Undergrowth, scrub oak and white thorn.

Mountainous land, 9.62 chains.

From the old  $1/4$  Sec. cor.

East on a random line.

26.44 To a point 19 lks. S of a live oak, which is a witness cor. to Secs. 2, 3,  $3/4$  and 35, as established by Dept. Cutting in the boundary survey of the San Gabriel Forest Reservation, marked and witnessed as described by the Surveyor General.

Thence I run

S.  $89^{\circ} 35'$  W. on a true line bet. secs. 3 and  $3/4$ .

Ascend.

3.45 A trail to Mr. Lowe hotel, bears S. and N. E.

6.50 Top of spur bears S.

Descend.

23.75 Las Flores Canyon, 50 lks. wide, course S.

Ascend.

26.45 The  $1/4$  sec. cor.

Thence from the live oak witness cor.

SOUTHERN BOUNDARY T.2 N., R.12 W.  
Friel - 1906 (Vol. 410:14 5 - 8)

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Chains

S. 89° 25' E.

on a true line bet. secs. 3 and 34

Descend.

10.00 Center of Incline Railway from Mr. Lowe hotel, bears  
N. 28° 00' W. and S. 28° 00' E.

13.45 The cor. of secs. 2. 3. 34 and 35, previously set and  
described by me.

Land, mountainous.

Soil, rocky; 4th rate.

Dense undergrowth, scrub oak and white thorn.

Mountainous land, 39.90 chs.

August 9, 1906.

General Description.

The land in this portion of the township is rough and mountainous, and lies on the southern slope of the Sierra Madre Mountains, and is covered with a dense undergrowth of brush, scrub oak, white thorn and iron wood.

SOUTHERN BOUNDARY T.2 N., R.12 W.  
Friel - 1906 (Vol. 410:114 5 - 8)

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS

LIST OF NAMES

A list of the names of the individuals employed by Legrand Friel, United States Deputy Surveyor, to assist in running, measuring and marking the lines and corners described in the foregoing field notes of the survey of the retracement of part of Sec. 34, T. 2 N., R. 12 W. S.B.M.

showing the respective capacities in which they acted:

<u>Clarence J. Park</u>	Chairman
<u>Edwin S. Bittmann</u>	Chairman
<u>Abel Garnier</u>	Flagman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Legrand Friel United States Deputy Surveyor, in surveying all those parts or portions of the retracement of part of Sec. 34, T. 2 N., R. 12 W. of the San Bernardino meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

<u>/s/ Clarence J. Park</u>	Chairman
<u>/s/ Edwin S. Bittmann</u>	Chairman
<u>/s/ Abel Garnier</u>	Flagman

Subscribed and sworn to before me this 12th )  
day of October, 1906 )

SEAL

/s/ Mary A. Connors  
Notary Public

SUBDIVISION T.1 N., R.12 W.  
Friel - 1906 (Vol. 410:12 6, 7)

Chains July 16: At 6 a. m., 1 m. t., I lay off the azimuth of Polaris,  $1^{\circ} 26.5'$  to the W, and mark the meridian thus determined, by driving a tack in the post set July 15th, on which the meridian falls 0.2 ins. east of the mark, determined by the solar.

At 8h 15m a. m., 1. m. t., I set off  $34^{\circ} 12'$  N., on the lat. arc.,  $21^{\circ} 28'$  N., on the decl. arc; and mark a point in the meridian determined with the solar by a tack in the post already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observations.

The solar apparatus, by p. m. and a. m. observations, defines positions for meridians, respectively about  $0' 10''$  West and  $0' 16''$  east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8h 15 m a.m. is N.  $14^{\circ} 31'$  W. The angle thus determined gives the magnetic decl.  $14^{\circ} 31'$  E.

From the  $1/4$  section corner between sections 2 and 3, T. 1 N., R. 12 W., S. B. M., which is a Redwood post 3 ft. long,  $4$  ins. square, in mound of earth and stone, I mark the same  $1/4$  S. 2 on east and  $1/4$  S. 3 on W. faces; and raised a mound of earth and stone  $3-1/2$  ft. base,  $1-1/2$  ft. high W. of cor. Pits impracticable.

Thence I run North bet. secs. 2 and 3.

Ascending through dense undergrowth, scrub oak and white thorn.

2.15 Intersect line 2-3 of the Grace Lode Survey No. 4237 of the Monitor Consolidated Lode Claims  $3,43$  chs. east of Cor. No. 3.

5.20 Ridge bears N. E. and S. W.

Descend.

SUBDIVISION T.1 N., R.12 W.  
Friel - 1906 (Vol. 410:12 6, 7)

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Chains

- 7.10 Trail bears E. and W.  
Ascend.
- 13.30 Spur bears E.  
Descend into Rubio Canon.
- 13.75 Trail bears E. and W.
- 24.87 Intersect line 1-4 of the Grace Lode Survey No. 4237  
of the Monitor Consolidated Lode Claims, 3.43  
chs. East of Cor. No. 4.
- 26.75 Rubio Canon 20 lks. wide, course west, and ascend.  
Rubio Pavillion east 1.25 chs.
- 27.28 P. E. Ry. Co's railroad track bears E. and W.
- 31.25 Incline railroad from Mt. Lowe to the Pavillion bears  
N. 28° 00' W. and S. 28° 00' E.
- 40.00 Set temp. cor. of Secs. 2, 3, 34 and 35 Tps. 1 and  
2 N. R. 12 W.  
To determine the point of intersection with the South  
boundary of the San Gabriel Forest Reservation  
and the North boundary of Township, I proceed  
to the W. C. for sections 2, 3, 34 and 35, and  
run  
S. 89° 25' E. the witness 1/4 Sec. cor. of secs. 2  
and 35 being in sight.
- 13.45 Intersect N. and S. line bet. Secs. 2 and 3 - 2.27  
chs. south of my temp. cor., making said line  
37.73 chs. long.  
At point of intersection, set a granite rock 10 x 12  
x 30 ins. 22 ins. in the ground for cor. of Secs. 2  
and 3, T. 1 N., R. 12 W., and Secs. 34 and 35, T. 2 N.  
R. 12 W., marked with two notches on east and four  
notches on west edges; and raised a mound of stone, 3  
ft. base, 2 ft. high, south of cor. Pits impracticable.  
Land, mountainous,  
Soil, rocky; 4th rate,  
Undergrowth, scrub oak and white thorn,  
Mountainous land, 37.73 chs.