

U. S. DEPARTMENT OF INTERIOR
GENERAL LAND OFFICE
WASHINGTON

4-27-36

District Cadastral Engineer
Public Survey Office
Glendale, California

Sir:

I have your letter of September 12, 1935, with which you transmitted the returns of the survey and resurvey of a portion of the Santa Barbara Forest Reserve Boundary as executed by Wm. H. Thorne under the direction of the Director of the U.S. Geological Survey in 1904-1906, consisting of five plats and one book of field notes in duplicate.

These returns have been examined and the resurvey in many cases has been found to be so contrary not only to accepted practice but also to legal requirements that it cannot be approved for official filing as a whole.

The following note has been placed on the plats:
"The resurvey represented by this plat was made under the direction of the Director of the U.S. Geological Survey in 1904 to 1906. Upon examination it was found that in many instances accepted methods were not used in the reestablishment of corners. Therefore, the survey was not accepted and the plat is filed as a matter of information only.

A memorandum Re Examination of returns together with a copy of this letter, have been bound in the book of field notes.

A copy returned - - - and to be filed as a matter of information only.

Yours respectfully,

(Signed)

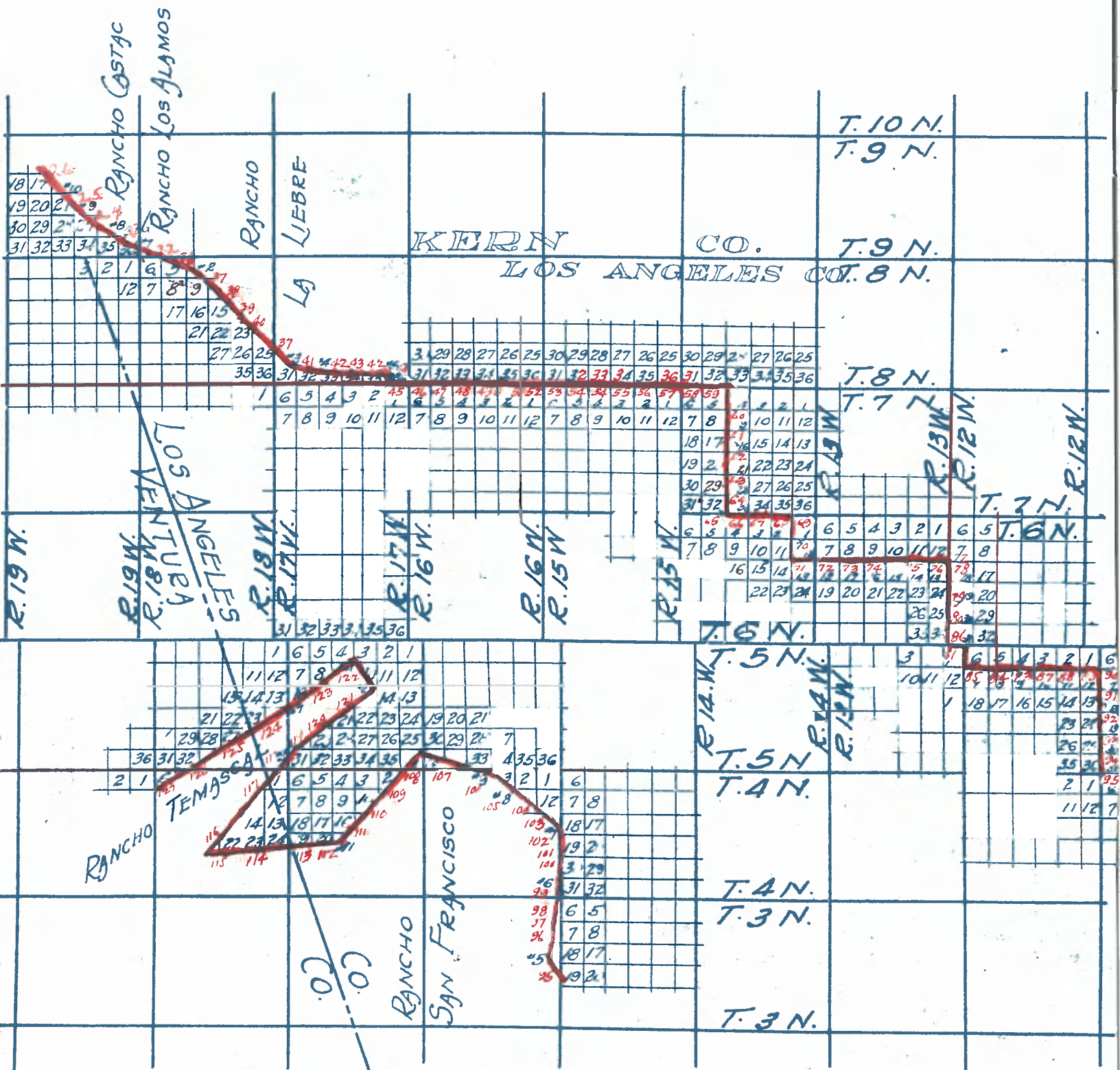
Antoinette Funk

Ass't. Commissioner

COPY

FIELD NOTES OF
SAN GABRIEL NATIONAL FOREST BOUNDARY

Copied from Notes on file in the Angeles National Forest Reserve Offices
Los Angeles, California.



begins to form the forest boundary.

Vol. 185, Page 873, California Field Notes, General Land Office Series.

There seems to be no consecutive line of Rancho Bdy. from Cor. No. 7 to Cor. No. 9, so we give the 80.00 ch. corners on the subdivisional lines and the point of intersection of the subdivisional lines with the Rancho Bdy.
(*) indicated direction line only.

* From the cor. to Tps. 8 and 9 N., Rgs. 18 and 19 W.,
I run,
* North bet. secs. 31 and 36. Var. 14° 25' E.

Descend.
27.45 Intersect S. Bdy. of Rancho Las Alamos and set post 4 ins. sq., 1 ft. in earth, 1 ft. above stone mound, 4½ ft. in diam. at base by 2 ft. in height, for cor. to fracl. secs. 31 and 36, from which I run along S. Bdy. of said Rancho 32.57 chs., N. 69½° W., to SW. cor. of same Rancho and SE. cor. of Rancho Castac.

Note- - Line running along S. Bdy. of Rancho is actual Forest Bdy. Land, mostly level.
Soil 1st rate.
Timber and undergrowth of oak and chaparral.

From the cor. to secs. 35, 36, 1 and 2 on the S. Bdy.
I run
* North bet. secs. 35 and 36. Var. 14° 25' E.

* * * * *
75.26 Intersect S. Bdy. of Rancho Castac and set post 4 ins. sq., 1 ft. in earth, 1 ft. above stone mound, 4½ ft. in diam. at base, by 2 ft. in height for cor. to fracl. secs. 35 and 36, from which cor. I run along S. Bdy. of Rancho, S. 53½° E., 61.50 chs., to SE. cor. of same, known as Cor. No. 7.

Note- - The S. Bdy. of Rancho is actual Forest Bdy.

North bet. secs. 34 and 35. Var. 14° 25' E.
* * * * *

80.00 * Set post 4 ins. sq., 1 ft. in earth, 1 ft. above earth mound, 4½ ft. in diam. at base by 2 ft. in height and dug pits 24 x 18 x 12, 8 lks. dist., at 4 angles for cor. to secs. 26, 27, 34 and 35, from which one of a cluster of 4 oaks, 10 ins., brs. N. 2° (20) W., 216 lks. dist.

Rancho Castas, Vol. 185, Page 873, General Land Office
Notes.

Land, mostly level.
Soil 1st rate.
Timber and undergrowth of Buckeye, Oak and Chaparral.

* East on a random line bet. secs. 26 and 35.
Var. 14° 25' E.

* * * * *

79.88 * Interest N. and S. line 15 lks. N. of cor. to secs. 25, 26,
35 and 36, from which cor. I run

* North 89° 54' W. on true line bet. secs. 26 and 35.
Var. 14° 25' E.

6.73 Intersect S. Bdy. of Rancho Castas, 47.53 chs., S. 53½° E.
of Cor. No. 8, and set post 4 ins. sq., 1 ft. in earth,
1 ft. above earth mound, 4½ ft. in diam. at base, by 2 ft.
in height, dug pits 24 x 18 x 12, 8 lks. dist., at 4 angles,
for cor. to fracl. secs. 26 and 35.
* * * * *

79.88 * The cor. to secs. 26, 27, 34 and 35.
Land, mostly level.
Soil 1st rate.
Timber and undergrowth of Oak and Chaparral.

* North bet. secs. 26 and 27.

Var. 14° 25' E.

* * * * *

72.60 Intersect S. Bdy. of Rancho Castas and set post 4 ins. sq.,
1 ft. in earth, 1 ft. above earth mound, 4½ ft. in diam. at
base by 2 ft. in height and dug pits 24 x 18 x 12, 8 lks.
dist. at 4 angles for cor. to fracl. secs. 26 and 27, from
which cor. I run

Along SW. Bdy. of said Rancho 56.29 chs., S. 38½° E. to cor.
No. 8 of the final survey of said Rancho.

Note - - The SW. Bdy. of Rancho is actual Forest Bdy.
Land, mountainous.
Soil 1st and 2nd rate.
Timber and undergrowth of Pine, Oak and Chaparral.

* North bet. secs. 33 and 34.

Var. 14° 25' E.

* * * * *

80.00 * Set post 4 ins. sq., 1 ft. in earth, 1 ft. above stone mound,
4½ ft. in diam. at base by 2 ft. in height for cor. to secs.
27, 28, 33 and 34.

Land, mountainous.

Soil 2nd rate.

Timber and undergrowth of Oak and Chaparral.

Sept. 30, 1880.

* North bet. secs. 27 and 28.

Var. 14° 25' E.

* * * * *

80.00 * The point for section cor. falling on steep side hill, a place
not suitable to build mound, continue N. 3.35 chs. and
Set post 4 ins. sq., 1 ft. in earth, 1 ft. above earth mound,
4½ ft. in diam. at base by 2 ft. in height, and dug pits 24x
18x12, 8 lks. dist., at 4 angles for witness to cor. to secs.
21, 22, 27 and 28, from which one of a cluster of 3 oaks, 10 ins.
diam., brs. S. 33½° W., 20 lks. dist., and a Juniper 12 ins.
diam., N. 18° E., 25 lks. dist.

Rancho Castas, Vol. 185, Page 873, General Land Office.
Field Notes

Land, mountainous.
Soil 1st and 2nd rate.
Timber and undergrowth of Oak, Juniper and Chaparral.

* East bet. secs. 22 and 27.

Var. 14° 25' E.

* * * * *

73.91

Intersect SW. Bdy. of Rancho Castas and set post 4 ins. sq., 2 ft. in earth, 2 ft. above for cor. to fracl. secs. 22 and 27, from which cor. I run along SW. Bdy. of said Rancho 9.33 chs., S. 38½° E. to cor. to fracl. secs. 26 and 27.

Note- -

SW. Bdy. of Rancho is actual Forest Bdy.
Land mountainous, except in Canada. Soil 1st and 2nd rate.
Timber and undergrowth of Oak and Chaparral.

* North bet. secs. 21 and 22.

Var. 14° 25' E.

* * * * *

80.00

* Set post 4 ins. sq., 1 ft. in earth, 1 ft. above earth mound, 4½ ft. in diam. at base by 2 ft. in height and dug pits 24x18x12, 8 lks. dist., at 4 angles for cor. to secs. 15, 16, 21 and 22.
Land mountainous.
Soil 1st and 2nd rate.
Timber and undergrowth of Oak and Chaparral.

* East bet. secs. 15 and 22.

Var. 14° 25' E.

* Descend.

10.08

* Intersect SW. Bdy. of Rancho Castas and set post 4 ins. sq., 1 ft. in earth, 1 ft. above earth mound, 4½ ft. in diam. at base by 2 ft. in height, and dug pits 24x18x12, 8 lks. dist., at 4 angles for cor. to fracl. secs. 15 and 22, from which cor. I run along SW. Bdy. of said Rancho, S. 38½° E., 102.34 chs. to cor. to fracl. secs. 22 and 27.

Note- -

The SW. Bdy. of Rancho is actual Forest Bdy.
Land, mountainous.
Soil 1st and 2nd rate.
Timber and undergrowth of oak and chaparral.

* North bet. secs. 16 and 15.

Var. 14° 25' E.

* Descend.

12.62

* Intersect SW. Bdy. of Rancho Castas and set post 4 ins. sq., 1 ft. in earth, 1 ft. above earth mound, 4½ ft. in diam. at base by 2 ft. in height and dug pits 24x18x12, 8 lks. dist., at 4 angles for cor. to fracl. secs. 15 and 16, from which Cor. No. 9 brs. N. 38½° W., 47.72 chs. dist.
Land mountainous.
Soil 3rd rate.
Timber and undergrowth of Oak and Chaparral.

For the Rancho line of the 9th course see Vol. 343, Page 707, General Land Office Field Notes.

After diligent search and inquiry, I can find no cor. to

Rancho Castac, Vol. 343, Page 707, General Land Office Field Notes.

secs. 8, 9, 16 and 17, nor any corm. of said secs. other than those described in the retracements of subdivisions of this survey.

To locate if possible the closing corm. to secs. 15-16, 15-22 and 15, 16, 21 and 22, I proceed as follows:

From Cor. No. 9 of the Castac Rancho, which is a white oak standing, marked and witnessed as described by the Surveyor General, I run

S. $38\frac{1}{2}^{\circ}$ E. on a random line on bdy. of Castac Rancho.

40.00 Set temporary $\frac{1}{4}$ mile post.

47.72 Search diligently but find no trace of old cor. By actual count there are over 40 trees within 3 chs. of this point suitable for witness trees, I here set temporary closing cor. to secs. 15-16.

63.90 Search carefully but find no trace of old closing cor. to secs. 15-22 and set temporary closing cor. to said secs. I search 10.08 chs. W. of this point but find no trace of old cor. The line from the point at 63.90 chs. S. $38\frac{1}{2}^{\circ}$ E. passes over high steep spurs with brushy canons, very difficult to chain, and I continue my line as a transit (sight) line and reach a point 168 lks. N. $51\frac{1}{2}^{\circ}$ E. of the oak tree, Cor. No. 8 of Rancho Castac, standing and marked as described by the Surveyor General.

The random line corrected for the reported length of the line 230.95 chs. gives the true bearing S. $38^{\circ} 05'$ E.

December 30th, 1901.

From Cor. No. 9 I then run

S. $38^{\circ} 05'$ E. on true line on Bdy. of Castac Rancho.

1.00 Bottom of old adobe pit.

2.00 Ascend steep spur.

24.00 Top of spur, course NE.

+460'

30.00 Enter timber and brush

40.00 Set a stone 5x11x16 ins., 11 ins. in earth marked $O\frac{1}{2}$ on NE. side, from which

A scrub oak 8 ins. diam. brs. N. $62\frac{1}{2}^{\circ}$ E., 99 lks. dist., marked S.B. & $O\frac{1}{2}$ M. B. T.

A scrub oak 4 ins. diam. brs. N. 68° E. 69 lks. dist., marked S. B. & $O\frac{1}{2}$ M. B. T.

44.00 Bottom of spur.

46.75 Wash 20 lks. wide, course NE.

-425'

47.00 Ascend

47.72 Set temp. closing cor. secs. 15-16.

53.75 Spur descend N.

+100'

61.50 Steep wash, course N. 15° W.

-50'

61.90 Cross wire fence, course N. 15° W. S. 15° E.

63.90 Set temp. closing cor. secs. 15-22.

Mountainous land, 63.90 chs.

Soil 3" rate

Some scrub oaks and brush.

From Cor. No. 9 Castac Rancho, I run

N. $30^{\circ} 20'$ W. on random line on bdy. of Castac Rancho

67.41 A point 49 lks. S. $59^{\circ} 40'$ W. of the Cor. No. 10, Castac Rancho, an oak tree standing, marked and witnessed as described by the Surveyor General.

Thence I run

S. $29^{\circ} 55'$ E. on a true line on bdy. of Castac Rancho.

7.50 Top of spur, course NE.

+85'

Descend steep rocky spur.

13.00 Enter flat of Johnson Canon.

20.70 Dry gulch, 6 lks. wide, NE.

-175'

21.80 Foot of rocky spur. Ascend through brush.

31.80 Rocky spur, descends NE.

40.00 Set a post (buckeye) 3 ft. long, 4 ins. sq., on rocky point surrounded by stones, marked S. B. & $O\frac{1}{2}$ M. for NE. side, for

Rancho Castao, Vol. 343, Page 707, General Land Office
Field Notes.

$\frac{1}{2}$ mile post, from which
A white oak 12 ins. diam. brs. N. $14\frac{3}{4}^{\circ}$ E.,
94 lks. dist., marked S.B. & C. $\frac{1}{2}$ M.B.T. and
A white oak 14 ins. diam. brs. N. 14° E.,
96 lks. dist., marked S.B. & C. $\frac{1}{2}$ M.B.T.
55.40 Top of round peak in spur. +320'
64.25 Foot of spur, leave brush.
67.41 Cor. No. 9 Castao Rancho -275'
Mountainous land 58.61 chs.
Dense brush 42.45 chs.
Soil 3" and 4" rate.
Scrub oaks, white oak and buckeye trees.
December 30th, 1901.

From Cor. No. 10 Castao Rancho, I run
N. 44° 40' W. on a random line on bdy. of Castao Rancho
120.20 The $\frac{1}{2}$ mile post of second mile standing, marked and witnessed
as described by the Surveyor General, brs. N. 45° 20' E.
35 lks. dist.
Thence I run
S. $44\frac{1}{2}^{\circ}$ E. on a true line on bdy. of Rancho Castao.
6.00 Foot of rocky spur, too steep to chain accurately, and
I run
1. S. $85\frac{1}{2}^{\circ}$ E. 4.23 chs.
2. S. 26° E. 2.76 chs.
3. S. $21\frac{1}{4}^{\circ}$ W. 2.08 chs. to a point on line 6.67
chs. from the beginning of the traverse, $6.00 + 6.67 = 12.67$
12.67 Foot of rocky spur.
14.70 Cross public road, course E. of N.
20.70 Enter same road, course NW. and SE.
29.50 Leave same road bearing to E.
32.27 Mrs. C. Pettitt's house brs. W. about $1\frac{1}{2}$ chs. dist.
33.00 Foot of spur, course N.
37.00 Top of spur, and descend. +100'
40.10 Set a buckeye post 3 ft. long, 3 ins. diam., 2 ft. in
earth, for mile post, marked S.B. & C. 1 M. on NE. side,
from which,
A white oak 30 ins. diam., brs. N. $35\frac{3}{4}^{\circ}$ E.,
280 lks. dist., marked S.B. & C. 1 M.B.T.
A white oak 24 ins. diam. brs. N. $30\frac{1}{2}^{\circ}$ E., 293 lks.
dist., marked S.B. & C. 1 M. B. T. - 30'
41.00 Ascend
45.00 Top of ridge, SW. and N. 20° E. + 40'
49.90 Foot of ridge. - 50'
52.00 Enter dense timber, ascend.
80.21 $\frac{1}{2}$ mile post of first mile standing and marked as described
by the Surveyor General.
53.00 Leave brush, read to E.S. Poole's, course E. and W.
84.50 Top of spur, course SE. +125'
87.90 Old road, course NE. and SW. - 60'
90.80 Dry gulch, 20 lks. wide, course NE.
93.60 Top of spur, course NE.
100.00 Top of spur of rock, course NE.
110.00 Top of bare spur, course NE. +200'
120.20 Cor. No. 10 Castao Rancho. Mountainous land 120.20 chs.
Soil 2" rate to worthless. Live oak, white oak and buckeye trees

CALCULATION OF TRAVERSE

S. $85\frac{1}{2}^{\circ}$ E.	4.23 =	S	.33 - -	4.22	- - - W - - -
S. 26° E.	2.76 =		2.49 - -	1.21	- - - - -
S. $21\frac{1}{4}^{\circ}$ W.	2.08 =		1.94 - -	- - -	0.75
			4.76	5.43	0.75
				- 75	
S. $44\frac{1}{2}^{\circ}$ E.	6.67 =		4.76 - -	4.68	

Dec. 31, 1901
Jan. 2, 1902

Santa Barbara Forest Reserve Boundary
Thorne 1905

Jan. 18:

At the corner of Secs. 4, 5, 32 and 32 S. bdy. of T. 9 N., R. 20 W. heretofore described, at 8 A.M. l.m.t. I set off 34°49' N. on lat. arc and 20°32' S. on decl. arc. and determine a meridian with the solar Mag. decl. 15° 15' E.

Thence I run

E. on a random line bet. Secs. 4 and 33.

40.00 Find no trace of $\frac{1}{4}$ sec. corner; set temporary corner, continue line East.

72.00 At this point I set off 20°32' S. on the decl. arc and at 12h.20m.28s. p.m. observe the sun on meridian. The resulting lat. is 34°49' N. which is about the proper latitude.

80.00 Find no trace of cor. of Secs. 3, 4, 33, 34.
Set temporary corner. Continue random line east bet. Secs. 2 and 34.

Jan. 18, 1905.

January 19:

27.51 At this point at 9 A.M. l.m.t. I set off 34°49' N. on lat. arc and 20°20' S. on decl. arc and determine a meridian with the solar. Continue line East.

40.00 Find no trace of $\frac{1}{4}$ sec. corner.

80.00 Find no trace of corner to Secs. 2, 3, 34, 35. Set temporary corner. Continue random line E. bet. Secs. 2 and 35.

15.00 At this point I set off 20° 19' S. on decl. arc and at 12h.10m.47s. P. M. observe the sun on the meridian; the resulting lat. is 34°49' N. which is the correct latitude.

40.00 Find no trace of $\frac{1}{4}$ section corner, set temporary and continue line East.

Jan. 19, 1905.

January 20:

50.50 At this point at 10 A.M. l.m.t. I set off 34° 49' N. on lat. arc. and 20°07' S. on decl. arc and determine a meridian with the solar. Continue line East.

80.00 Find no trace of corner of Secs. 1, 2, 35, 36.

Set temporary section corner.

At this temporary section corner I set off 20°06' S. on decl. arc and at 12h.11m.05s. P. M. observe the sun on the meridian. The resulting lat. is 34°49', the correct latitude.

Thence I run

East on a random line between Secs. 1 and 36.

40.00 Find no trace of $\frac{1}{4}$ section corner. Set temporary $\frac{1}{4}$ corner. Continue East.

80.00 Find no trace of corner of T. 8 and 9 N., R. 20 W. Set temporary Township corner at the corner of T. 8 & 9 N., R. 19 W. (no more), which is an oak post 3" square 2 ft. long, rotted off at top of ground, marked

$\frac{1}{4}$ S. 36 on one face

T. 8 N., R. 19 W. S. 31

T. 9 N., S. 6

6 notches on three sides

A small portion of stone mound remaining. I test position of corner by the two bearing trees which are in a good state of preservation and find corner correct. I reestablish it at the same point as follows:

Santa Barbara Forest Reserve Boundary
Thorne 1905

Set iron U. S. Forest Reserve Boundary Post No. 37,
30 ins. in ground; raise mound of earth and stone 4 ft.
base, 1 ft. high around post, marked

No. 37 on S. side of cap
1905 on S. side of cap
Reserve in S.E. quadrant, also marked
T. 9 N., R. 19 W., W.S. 31 in N.E. quadrant
T. 8 N., S. 6 in S.E. quadrant
1/4 S. 36 on W. side of rim of cap with 6 notches
on N. S., and E. edges of rim of cap from which
A pine 10 ins. diam. bears S. 77° 50' E.
122 lks. dist., marked T. 8 N., R. 6 W. S. 6 B.T.

Thence I run

40.00 South on a random line along W. bdy. of Sec. 6.
Find no trace of 1/4 corner or corner of T. 8 & 9 N.,
R. 20 W.

80.00 Continue line South.
Find no trace of corner of Sec. 1, 6, 7 and 12, there
are bearing trees given in the original notes for this
corner. None are found. There is no evidence of this
line having been run.
Discontinue line at this point.

Note: I go back over the line along the South bdy. of
T. 9 N., R. 20 W., etc.

(the notes between pages 33 and 36 inclusive, Vol. 464,
are in T. 9 N., R. 20 W. and are not of use in Los Angeles
County).

From the cor. of T. 8 and 9 N., R. 19 W., heretofore described,
I run S. on a true line along the E. boundary of Sec. 36
over gradual N.E. slope through sage brush and scattering
pine and oak.

7.78 Top of bench bears N.E. and S.W. 150 ft. above corner.
10.00 Head of small drain course N.E. enter old field N.E. and
S.W., thence over gradual N. slope.

22.60 Leave old field, enter dense growth of sage brush and
scattering pinion pine; ascend steep N. slope.

32.26 Corner of T. 8 and 9 N., R. 20 W.
Land mountainous, soil 2nd and 3rd rate.
Timber, oak and pine; dense growth of sage brush.

Jan. 21, 1905.

January 24:

35.27 1/4 section corner bears S. 13 lks.
At the corner of T. 8 and 9 N., R. 19 W. at 1 P.M. l.m.t.
I set off 34° 49' N. on lat. arc and 19° 11' S. on decl.
arc and determine a meridian with solar.

Thence I run

35.27 East on random line bet. Secs. 6 and 31.
1/4 section corner bears S. 13 lks. which is a pine post
broken off at the top of ground. I test the position of
corner by original bearing tree and find position correct.
I reestablish corner at the same place as follows:

Set Iron U.S. Forest Reserve Boundary Post No. 38
30 ins. in the ground; raise mound of earth and stone 4 ft.
base, 1 ft. high, around post marked:

No. 38 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked
1/4 S. on N. side of cap from which

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Thorne 1905

An oak tree 10 ins. diam. bears N. 22°15' E. 203 lks. dist., marked $\frac{1}{4}$ S.B.T.
Set over $\frac{1}{4}$ section corner and continue line East.
75.53 Corner of Secs. 5, 6, 31, 32 bears S. 28 lks., which is an oak post 18 ins. long broken off at the ground; original pit still visible. I reestablish corner at same place as follows:
Set iron U.S. Forest Reserve Boundary Post No. 39, 39 ins. in the ground; raise mound of earth 4 ft. base, 1 ft. high, around post marked:
No. 39 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked:
T. 9 N., S. 32 in N.E. quadrant
R. 19 W. S. 5 in S. E. quadrant
T. 8 N. S. 6 in S. W. quadrant
S. 31 in N. W. quadrant with 1 notch on west and 5 notches on E. edges of cap.
I return to the corner of T. 8 and 9 N., R. 19 W.
Thence I run
S. 89°48' E. on a true line between Secs. 6 and 31 over level land through scattering pine and oak timber.
5.85 Wire fence bears N. and S.
7.55 Elm road bears N. 70° W and S. 70° E.
13.00 Enter willow thicket, bears N. and S.
23.00 Leave willow thicket, enter meadow, bears N. and S.
32.75 Spring of pure water bears S. 20 lks.
35.27 $\frac{1}{4}$ section corner, from which U.S.G.S. bench mark, elev. 4471 ft., bears N. 1045' E. 7.42 chs.
Thence I run
S. 89°36' E.
36.10 N.W. corner of a deserted house on line.
39.25 Leave level land brs. N. & S., ascend gradual W. slope through sage brush.
41.38 Wire fence bears N. and S.
44.00 Change to gradual N. slope.
56.25 Change to gradual E. slope.
59.25 Change to gradual W. slope.
71.00 Change to gradual E. slope.
75.53 Corner of Secs. 5, 6, 31, 32.
Land level and rolling.
Soil 2nd and 3rd rate.
Timber oak and pinion pine, willow and sage brush.

40.33 East on a random line between Secs. 5 and 32.
 $\frac{1}{4}$ section corner bears S. 10 lks. which is an oak post broken off at the top of the ground; I reestablish it at same point as follows:
Set a granite stone 20x8x8 ins. 15 ins. in the ground for $\frac{1}{4}$ section corner, marked $\frac{1}{4}$ on N. face; dig pits E. and W. of corner, $3\frac{1}{2}$ ft. dist.; raise mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of corner.
Set over corner and continue line E.
80.01 Corner of Secs. 4, 5, 32, 33 bears S. 16 lks., which is an oak post 3 ins. square, 3 ft. above mound of earth, 4 ft. base, 1 ft. high around post. I enlarge mound to 5 ft. base, 2 ft. high around post; dig pits 18x18x12 ins. in each section, $5\frac{1}{2}$ ft. dist., raise mound of earth and stone 5 ft. base, $2\frac{1}{2}$ ft. high N. of corner.
I return to corner of Secs. 5, 6, 31, 32.
Then I run.
S. 89° 51' E. on a true line between Secs. 5 and 32 over gradual E. slope through prairie and scattering sage brush.
21.00 Small drain, course N.E., ascend gradual N.W. slope.
24.00 Change to gradual N. slope.

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26.25 Side hill drain, course N.
32.00 Side hill drain, course N.
36.00 Side hill drain, course N.
40.33 $\frac{1}{4}$ section corner.
Thence I run
S. 89°46' E. Descend N.E. slope from section corner.
49.50 Change to level land, brs. N.W. and S.E. (Cuddy Valley)
63.25 Old fence line brs. N. and S. Enter dense growth of
sage brush.
80.01 Corner Secs. 4, 5, 32 and 33.
Land rolling, and level.
Soil 3rd and 4th rate.
Timber, oak, ironwood, palo verde, elder and sage brush.
Formation granite.

Jan. 24, 1905.

January 25:

At the corner of Secs. 4, 5, 32 and 33, S. bdy. T. 9 N.,
R. 19 W. at 9 A.M. l.m.t. I set off 34° 49' N. on lat. arc
and 18° 58' S. on decl. arc and determine a meridian with the
solar.

Thence I run

East on a random line between Secs. 4 and 33.

40.45 $\frac{1}{4}$ section corner brs. S. 6 lks. which is an oak post badly
decayed in mound of stone. I reestablish corner at the same
point as follows:

Set a granite stone 26x10x6 ins. 18 ins. in the
ground, marked $\frac{1}{4}$ on N. face; raise mound of stone
3 ft. base, 1 $\frac{1}{2}$ ft. high N. of corner from which an
oak 14 ins. diam. bears S. 65° E. 211 lks. dist.
marked $\frac{1}{4}$ S.B.T.

Old bearing tree N. 42° W. 210 lks. in good state of
preservation.

Set over corner and continue line E.

80.72 Corner of Secs. 3, 4, 33 and 34 brs. S. 15 lks. dist., which
is an oak post 3 ins. sq., 2 ft. high in mound of stone. I
enlarge mound of stone to 4 ft. base, 2 ft. high around post;
~~xxxxxxx~~; dig pits 18x18x12 ins. in each section
5 $\frac{1}{2}$ ft. dist.; raise mound of earth and stone 5 ft. base, 2 $\frac{1}{2}$ ft.
high N. of corner. Corner properly marked and witnessed.
I return to the corner of Secs. 4, 5, 32, 33.

Thence I run

S. 89°55' E. on a true line between secs. 4 & 33 over level
land through dense brush.

0.06 Set iron U.S. Forest Reserve Boundary post No. 40, 24 ins. in
ground, raise mound of stone 5 ft. base, 1 $\frac{1}{2}$ ft. high around
post marked:

No. 40 on S. side of cap

1905 on S. side of cap

Reserve in S.E. and S.W. Quadrants, also marked:

T. 9 N. S. 33 W.C. in N.E. Quadrant

R. 19 W. S. 4 in S.E. Quadrant

T. 8 N. S. 5 in S.W. Quadrant

S. 32 in N.W. Quadrant, with 2 notches on

west and 4 notches on east edges of rim of cap.

19.88 N.W. corner of fence; thence along wire fence and wagon road.

30.00 Small drain N.E.

34.75 Frasier Mine and Bakersfield wagon road bears W. and S. 80° E.

40.45 $\frac{1}{4}$ Section corner.

Thence I run

S. 89°47' E.

42.74 Old line tree and oak 5 $\frac{1}{2}$ ft. in diam. marked 3 notches on E.
and W. faces.

Santa Barbara Forest Reserve Boundary
Thorne 1905

- 71.25 Dry bed of creek, 50 lks. wide, 2 ft. banks, course S. 70° E.
80.72 Corner of Secs. 3, 4, 33, 34.
Land level.
Soil 3rd rate.
Timber, oak, dense growth of live oak and sage brush.
- 40.50 East on random line between Secs. 3 and 34.
¼ section corner brn. S. 24 lks., which is an oak post broken off at top of ground. I test position by bearing tree and reestablish it at the same place as follows:
Set a granite stone 18x18x8 ins. 12 ins. in ground for ¼ section corner marked ¼ on N. face, from which:
A buckeye 8 ins. diam. bears S. 40° 30' E. 12 lks. dist., marked ¼ S.B.T.
Dig pits 18x18x12 ins. E. and W. of corner ¾ ft. dist., raise mound of earth and stone ¾ ft. base, 1½ ft. high N. of corner.
Set over corner and continue line E.
- 47.50 At this point I set off 18° 57' S. on decl. arc and at 12h. 12m. 24s. P.M. 1.m.t. observe the sun on the meridian. The resulting latitude is 34° 49' 30" N. which is the correct latitude.
- 80.24 Corner of Secs. 2, 3, 34 and 35 bears S. 2 lks. dist. which is an oak post broken off. I test position of corner by bearing trees and reestablish it at the same point as follows:
Set a granite stone 20x8x8 ins. 15 ins. in the ground for corner of Sections 2, 3, 34, 35, marked 2 notches on E. and 4 notches on W. face. I mark new bearing trees as follows:
An oak 12 ins. diam. bears N. 44° 30' E. 146 lks. dist., marked T. 9 N., R. 19 W., S. 35 B.T.
An oak 8 ins. diam. bears N. 50° 45' W. 29 lks. dist. marked T. 9 N., R. 19 W., S. 34 B.T.
Thence I return to the corner of Secs. 3, 4, 33 and 34.
Thence I run S. 89° 39' E. on a true line between Secs. 3 and 34 over level land through dense brush.
- .06 Set iron U.S. Forest Reserve Boundary Post No. 41 30 ins. in ground; raise mound of earth and stone, 4 ft. base, 1 ft. high around post, marked
No. 41 on S. side of cap
Reserve in S.E. and S.W. Quadrants, also marked
T. 9 N., S. 34 W.C. in N.E. Quadrant
R. 19 W. S. 3 in S.E. Quadrant
T. 8 N. S. 4 in S.W. Quadrant
S. 33 in N.W. Quadrant, with 3 notches on E. and W. edges of rim.
- 14.80 Dry bed of creek 100 lks. wide, course N.E.
18.50 Frazier Mine and Bakersfield wagon road bears N.E. and S.W.
26.59 Set iron U.S. Forest Reserve Boundary Post No. 42, 30 ins. in ground; raise mound of earth and stone 4 ft. base, 1 ft. high around post, marked:
No. 42 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. Quadrants
- 26.89 Tejon-Pass-Los Angeles wagon road bears N. 20° E. and S. 20° W.
27.87 Small drain N.E.
38.48 Wire fence bears N. and S.
40.50 ¼ section corner.
From this corner Kern and Los Angeles County's boundary post bears N. 25° 46' E. 20.39 chs., which is an oak post 4½ ft. high by 10x5½ ins. square, marked

Santa Barbara Forest Reserve Boundary
Thorne 1905

K T. 9 N., R. 19 W., on N. face
 L.A. T. 8 N., R. 19 W. on S. face
 S. 35 on N.E. face
 S. 2 on S.E. face
 S. 3 on S.W. face
 S. 34 on N.W. face
 U.S.G.S. bench mark, elev. 3744, 3 lks. N.E. of post;
 post 5 ft. long, the 10x6 in. square bears N. 17° 40' E.
 19.39 chs. dist. marked K and 1 notch on N. face, L.A.
 and 1 notch on S. face.
 Thence I run S. 89° 57' E.
 42.00 Small drain, course N.
 43.72 Wire fence brs. N. and S.
 44.00 Leave Cuddy Valley bears N.E. and S.W., ascend steep N.W.
 slope through scattering oak timber.
 58.75 Drain, course N.W.
 62.75 Side hill drain, course N.W.
 70.00 Change to N.E. slope 200 ft. ascend.
 76.00 Change to steep N.E. slope.
 80.20 Wire fence N. and S.
 80.24 Corner to Secs. 2, 3, 34 and 35.
 Land, level, mountainous.
 Soil 2nd and 3rd rate.
 Timber, white oak, live oak brush.
 Formation granite.

East on a random line between Secs. 2 and 35.
 38.53 $\frac{1}{4}$ section corner brs. S. 26 lks. dist., which is an oak
 post $2\frac{1}{2}$ inches square, 2 ft. high, marked and witnessed.
 Set a granite stone 18x12x8 inches, 12 inches in the ground
 on the W. side of post, marked $\frac{1}{4}$ on N. face; dig pits 18x18x12
 inches E. & W. of corner, $3\frac{1}{2}$ ft. dist.
 Set over corner and continue line E.
 81.00 Find oak post on top of ground. Could not find true point as
 the bearing trees were not recorded in original notes.
 Continue line E. between Secs. 1 and 36.
 41.21 $\frac{1}{4}$ section corner bears N. 9 lks., which is an oak post 3 inches
 square, 4 ft. long in small mound of stone badly decayed. I
 reestablish it at the same point as follows:
 Set a granite stone 12x10x10 inches, 8 inches in the
 ground, by side of the post, marked $\frac{1}{4}$ on N. face from
 which:
 An oak 8 ins. diam., bears S. 21° E. 156 lks.
 dist. marked $\frac{1}{4}$ S.E.T.
 An oak 8 ins. diam. bears N. 61° 15' W. 19 lks.
 dist. marked $\frac{1}{4}$ S.E.T.
 I return to the corner of Secs. 2, 3, 34 and 35.
 Thence I run
 S. 89° 38' E. on a true line between Secs. 2 and 35 over
 gradual E. slope through scattering oak timber.
 .06 Set iron U.S. Forest Reserve Boundary Post No. 43, 30 inches
 in ground; raise mound of earth and stone, 4 ft. base, 1 ft.
 high, around post marked:

No. 43 on S. side of cap
 1905 on S. side of cap
 RESERVE in S.E. and S.W. Quadrant, also marked:
 T. 9 N. S. 35 W.C. in N.E. Quadrant
 R. 19 W. S. 2 in S.E. Quadrant
 T. 8 N. S. 3 in S.W. Quadrant
 S. 34 in N.W. Quadrant, with 2 notches
 on E. and 4 notches on W. edges of rim.
 3.50 Small drain, course N., 200 ft. descent; ascend W. slope
 of spur.

Santa Barbara Forest Reserve Boundary
Thorne 1905

6.10 Top of spur bears N. and S; descend steep E. slope.
 10.25 Foot of descent; thence over bottom of canyon.
 12.25 Dim road bears N.W. and S.E.
 12.75 Ascend steep S.W. slope
 23.00 Side hill drain, course S.W.
 35.00 Top of hill bears N. and S. 500 ft. ascent; descend gradual E. slope.
 38.53 $\frac{1}{4}$ section corner.
 Thence I run
 N. 89°56' E.
 39.00 Ascend gradual W. slope
 42.00 Top of ridge bears N. and S.
 42.37 Wire fence N. and S.
 51.00 Descend steep N.W. slope.
 62.50 Drain, course N.E., oak timber along each bank.
 68.50 Change to E. slope, through scattering oak timber.
 74.00 Foot of 500 ft. descent; thence along gradual N. slope.
 79.87 Set a granite stone 24x24x6 inches, 18 inches in ground, for corner of Secs. 1, 2, 35 and 36 marked with 1 notch on E. and 5 notches on W. faces, from which
 An oak 24 ins. diam., bears N. 24°45' E. 107 lks. dist., marked T. 9 N., R. 19 W. S. 36 B.T.
 An oak 16 ins. diam., bears S. 65°45' E. 104 lks. dist., marked T. 8 W., R. 19 W. S. 1 B.T.
 An oak 30 ins. diam., bears S. 64° W., 74 lks. dist., marked T. 8 W., R. 19 W., S. 2 B.T.
 An oak 30 ins. diam., bears N. 37° 15' W. 152 lks. dist., marked T. 9 N., R. 19 W., S. 35 B.T.
 Land mountainous
 Soil 2nd and 3rd rate.
 Timber white oak.
 Formation granite.

Jan. 25, 1905.

January 27:

.06 N. 89°56' E. on a true line between Secs. 1 and 36 over gradual N.W. slope, through scattering oak and timber.
 Set iron U.S. Forest Reserve Boundary Post No. 44, 30 ins. in ground; raise mound of earth and stone 4 ft. base, 1 ft. high around post, marked:
 No. 44 on S. side of cap
 1905 on S. side of cap.
 Reserve in S.E. and S.W. Quadrants; also marked:
 T. 9 N. S. 36 W.C. in N.E. Quadrant
 R. 19 W. S. 1 in S.E. Quadrant
 T. 8 N. S. 2 in S.W. Quadrant
 S. 35 in N.W. Quadrant with 1 notch on E. and 5 notches on W. edges of rim.
 3.50 Change to N.W. slope
 9.75 Top of spur bears N.E. and S.W.; change to steep S. slope
 13.50 Drain course S.W., change to N.W. slope
 17.50 Leave timber bears N.E. and S.W.; thence through prairie.
 26.00 Top of ridge bears N. and S. descend N.E. slope
 33.50 Side hill drain course N.E.
 36.25 Wire fence S. 80° E. and N. 80° W.
 41.34 $\frac{1}{4}$ section corner heretofore described.
 At this corner at 8 A.M. l.m.t. I set off 34°49' N. on the lat. arc and 18° 27' S. on decl. arc and determine a meridian with the solar.
 Thence I run
 East on a random line between Secs. 1 and 36.

Santa Barbara Forest Reserve Boundary
Thorne 1905

81.07 Corner of Twp. 8 and 9 N., Rs. 18 and 19 W., bears S. 77 lks. dist., which is an oak post badly decayed. I reestablish corner at same point as follows:
Set a granite stone 14x10x10 ins. 8 ins. in ground for corner of T. 8 and 9 N., R. 18 and 19 W.; marked with 6 notches on N., S., E. and W. faces; S.E. bearing tree blown down.
An oak 18 ins. diam. bears N. 66° 55' E., 454 lks. dist., marked T. 9 N., R. 18 W. S. 31 E.T.
No other trees.
A bald peak S. 35° 35' E. about 2 miles.
I return to the $\frac{1}{4}$ section corner between Secs. 1 and 36.
Thence I run
S. 88° 54' E. on a true line, counting from section corner.
43.35 Drain course N.; ascend N.W. slope.
49.50 Top of spur bears N. and S.; descend N.E. slope.
59.25 Drain course N.E.; ascend N.W. slope.
65.00 Top of spur, bears N.E. and S.W., descend S.E. slope.
70.00 Change to gradual N.E. slope.
74.50 Enter flat bears N. and S.
77.50 Leave flat, ascend gradual W. slope.
79.25 Top of low spur bears N. and S.
81.07 Corner of Twp. 8 and 9 N., Rs. 18 and 19 W.
Land mountainous.
Soil 2nd and 3rd rate.
Timber, white oak.
Formation granite.

COPIED FROM W.H. THORN'S SURVEY OF NOV. 28, 1904-JAN. 11, 1906
FURNISHED BY GEOLOGICAL SURVEY

From the Cor. to Tps. 8 and 9., Rs. 18 and 19 W., I run E.
on a random line bet. Sees. 6 and 31
40.00 Find no trace $\frac{1}{4}$ sec. cor. Set temp. cor. Continue line
East.
73.18 Find no trace C.O. to Sees. 6 and 31 on Rancho Los Alamos y
Agua Caliente.
Set temp. cor.

Jan. 27, 1905.

Jan. 28:
I return to the Cor. to Tps. 8 and 9 N., Rs. 18 and 19 W.
Thence I run E. on a true line bet. Frasl. Sees. 6 and 31
over gradual E. slope through scattering oak timber.
00.06 Set Iron Boundary Forest Reserve Post No. 45, 30 in. in the
ground. Raise a mound of stone and earth 4 ft. base, 1 ft.
high around post.
Marked No. 45 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants
Also marked
T. 9 N., S. 31 W.O. on N.E. quadrant; R. 18 W.,
S. 6 on S.E. quadrant. T. 8 N., S. 1 on S.W. quadrant;
R. 19 W., S. 36 on N.W. quadrant. 6 notches N., S., E.
and W. edges of rim.
5.00 Enter nearly level land, brs. N. & S.
9.00 Small drain, course N.
13.00 Ascend gradual S.W. slope
20.00 A sidehill drain, course S.W.
24.50 Wire fence brs. N. 85° E., and S. 85° W.
33.50 Top of spur brs. N.W. and S.E. Descend steep N.E. slope.
36.50 Change to steep N. slope over gulleys.
40.00 Set a granite stone 20x10x8 in. 15 in. in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face from which an oak 16 in.
diam. brs. N. 47° E. 40 lks. dist. marked $\frac{1}{4}$ S. B. T.
An Oak 14 in. diam. brs. S. 75° 55' W. 329 lks. dist. marked
 $\frac{1}{4}$ S.B.T.
43.00 Sidehill drain, course N.W. Ascend N.W. slope
45.50 Top of spur brs. N.E. and S.W. Descend E. slope
48.00 Enter flat brs. N. & S.
50.67 Wire fence brs. N. 60° W. and S. 60° E.
54.50 Leave flat, ascend W. slope of spur
57.00 Change to steep W. slope through dense liveoak brush brs.
N. & S.
72.54 Intersect the Los Alamos y Agua Caliente Rancho
114.53 chs. N. 68° 16' W. of cor. No. 2 heretofore
described.
Set a granite stone 20x10x8 in. 15 in. in the ground for
closing cor. to frasl. Tps. 8 and 9 N., R. 18 W. marked
1 notch on W. face, C.O. on W. face; dig pits 24x24x12 in.
N. 68° 16' W. and S. 68° 16' E. 8 ft. on Grant line. Also
8 ft. W. of stone on line, raise a mound of earth and stone
5 ft. base, 2 $\frac{1}{2}$ ft. high W. of cor. Land level and rolling.
Soil second and third rate. Timber scattering oak, liveoak
brush.
Formation granite.

Jan. 28, 1905.

Copied from W.H. Thorn's Survey of Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

January 27, 1905:

S. Bdy. of Rancho Los Alimos y Agua Caliente

At the Cor. No. 7 of the Rancho Castao and Rancho Los Alimos y Agua Caliente which is a white oak tree 4 ft. in diam. in good state of preservation, I cut into tree and find the marks No. 7 S. B. & O.

The tree had made a growth of 8 in. since the original mark. I remark the tree No. 7 S. B. O. Thence I run S. 69° 30' E. Alam y S. Bdy. Los Alimos y Agua Caliente Rancho.

January 27, 1905.

January 28:

110.67

At this point I set off 34° 49' N. on lat. arc and 18° 12' S. on decl. arc and determine a meridian with the solar.

Var. 15° 14' E.

224.65

Continue line S. 69° 30' E.

Cor. No. 2 cor. of La Liebre and Los Alimos y Agua Caliente Ranches brs. S. 20° 30' W. 4.85 chs.

This cor. post is totally destroyed. I locate the exact point for the cor. by a witness tree which is given in the original notes as bearing S. 5.95 lks.

The tree is in good state of preservation.

I set a White Oak post 4 ft. long 6 in. sq. 2 ft. in the ground for cor. No. 2.

Marked L. L. No. 2, N.E. face

L. A. Y. A. O. on N.W. face

I also set a granite stone 17x8x8 in. 12 in. in the ground alongside the post.

Marked L. L. No. 2 on N.E. face

L. A. A. O. on N.W. face

I return to the true point on Grant line for the C.C. of fract. T. 8 N., R. 18 W. After the proper correction is made and cor. established, I run S. 68° 16' E. on a true line along S. bdy of the Los Alimos Grant, over gradual N.W. slope through dense liveoak brush.

.06

Set iron fer. res. bdy. post No. 46, 30 in. in the ground, raised mound of earth and stone 1/2 ft. base, 1 ft. high around post.

Marked No. 46 on S. side of cap

1905 on S. side of cap.

Reserve in S.E. and S.W. quadrants

Also marked

C. C. on W. side of rim of cap

T. 9 N., S. 31 in N.W. quadrants

T. 8 N., R. 18 W. S. 6 in. in S.W. quadrant

W. C. in N. E. quadrant

L. A. A. C. on N. side of rim of cap

counting from Cor. No. 7

119.27

Leave dense oak brush. Enter scattering timber brs. N. & S.

127.22

Wire fence brs. E. and W.

128.00

Top of ridge brs. N.E. and S.W.

Copied from W.H.Thorn's Survey of Nov.28th 1904,
Jan.11,1906,furnished by Geological Survey.

129.00 Descend gradual S.E. slope through open timber.
130.00 At this point I set off 18° 11' S. on the decl. arc and at
12h.13' p.m., observe the sun on the meridian.
The resulting lat. is 34°49', which is about 30" greater
than the proper lat.
132.50 Drain, course N. 70° E. Thence over gradual N. slope.
Through dense brush and scattering timber.
142.00 Descend steep E. slope.
149.50 Leave timber, bears N. and S.
150.50 Drain, course N., 10° E.
152.00 Ascend steep W. slope through dense brush.
157.29 Wire fence bears N. 67° 30' W. and S. 67° 30' E.
160.56 Set iron forest reserve Bdy. Post. No. 47, 30 inches in the
ground, raised mound of earth and stone 4 ft. base, 1 ft.
high around post marked.
No. 47 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. Quadrants
Descend gradual N.E. slope from Bdy. Post.
172.05 Drain, course N.
179.32 Leave timber, enter prairie bears N. and S.
187.00 Drain, course N.
189.00 Ascend steep W. slope.
197.26 Top of spur bears N.E. and S.W. Descend E. slope.
206.90 Small drain, course N.E. Ascend steep W. slope.
212.50 Change to gradual N. slope
218.00 Top of spur bears N.E. and S.W.
219.50 Descend steep E. slope
224.65 Cor. No. 2 of La Liebre and Los Alimos y Agua Caliente Ranchos
heretofore described.
Land mountainous
Soil second and third rate
Timber, oak and pine, dense brush, live oak, manzanita and
ironwood.
Formation - granite.

January 28, 1905.

South Boundary of La Liebre Rancho.

January 30:

At the S.W. cor. of the La Liebre Rancho, No. 2, at 10 a.m.,
l.m.t., I set off 34° 49' N. on the lat. arc and 17° 40' S.
on decl. arc and determine a meridian with the solar.

Var. 15° 14' E.

Thence I run S. 53° 15' E. on a random line along S. bdy. of
the La Liebre Rancho

96.38 At this point I set off 17° 39' S. on decl. arc and at 12h
13' 24" p.m., observe the sun on the meridian.

The resulting lat. is 34° 48' 30" which is the correct lat.
319.05 End of day's work.

January 30, 1905.

Copied from W. H. Thorn's Survey Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

January 31:

453.25 Continue line S. 53°18' E.
At this point, at 9 a.m., l.m.t., I set off 34°46' N. on
lat. arc and 17° 23' S. on decl. arc and determine a
meridian with the solar.

480.75 Cor. No. 3 bears N. 36°45' E. 234 lks. which is a granite
rock 14x24x18 inches above ground.
Marked L. L. No. 3
Witnessed by two bearing trees N. W. 1 dead
I mark new one as follows:
White Oak 7 inches diam. bears N. 58°30' W.
37 lks. distant marked L. L. No. 2 B. T.
At this cor. I set off 17° 22' S. on decl. arc and at
12h 13' 34" p.m., observe the sun on the meridian the
resulting lat. is 34° 46' N. which is the correct lat.
Thence I return to the S.W. corner of La Liebre Rancho
Cor. No. 2
Thence I run
S. 53° 32' E. on a true line along S. bdy. of said
rancho over gradual N.E. slope through prairie.
000.06 Set iron forest reserve boundary post No. 48, 30 inches
in the ground. Raise mound of earth and stone 4 ft. base,
1 ft. high around post marked:
No. 48 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. Quadrants
Also marked:
L. L. No. 2 W.C., N.E. Quadrant
L. L. A. C. in N.W. Quadrant on rim of cap

1.50 Change to level land.
11.50 Ascend N. W. slope
20.00 Top of spur bears N. and S.
21.00 Descend N. E. slope
25.50 Sidehill drain, course N.E.
Ascend N. W. slope
32.50 Top of spur bears N. and S. Descend N. E. slope
35.00 Change to steep N.E. slope
42.00 Enter timber bears N. and S.
46.00 Drain, course N.E., ascend N.W. slope
51.00 Top of spur bears N.E. and S.W. Descend
55.35 Drain, course N.E., ascend
59.50 Leave timber bears N. and S. Enter prairie
61.00 Top of spur bears N.E. and S.W. Descend
67.25 Enter timber bears N. and S.
68.00 Drain N. E.
71.65 Drain, course N.E. Ascend
76.25 Leave timber, enter prairie, bears N. and S.
78.00 Top of spur bears N.E. and S.W. Descend E. slope
80.00 Enter timber bears N. and S.
83.75 Drain, course N.E. Ascend
87.00 Leave timber, enter prairie.

Copied from W. H. Thorn's Survey Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

89.00	Top of spur bears N.E. and S.W. Descend E. slope
91.00	Side hill drain, course N.
96.38	Top of spur bears N.E. and S.W.
	Set Iron Bdy. Post No. 49, 30 inches in the ground, raised mound of earth and stone 4 ft. base, 1 ft. high around post.
	Marked No. 49 on S. side of cap
	1905 on S. side of cap
	Reserve in S.E. and S.W. Quadrants
	Descend gradual N.E. slope from Bdy. Post.
107.00	Change to E. slope
114.80	Drain, course N.E., ascend
115.00	Enter timber bears N.E. and S.W.
118.00	Top of spur bears N. and S. Descend
130.00	Change to N.E. slope
142.85	Wire fence N. and S.
143.00	Foot of descent
148.35	Drain, course N. Ascend W. slope
152.89	Wire fence bears N. and S. Top of ascent, thence over gradual E. slope.
161.20	Old road bears.
161.90	Set iron Forest Res. Bdy. Post No. 50, 30 inches in the ground. Raised mound of earth and stone 4 ft. base 1 ft. high around post, marked No. 50 on S. side of cap.
	1905 on S. side of cap
	Reserve in S.E. and S.W. Quadrants
178.50	Descend over broken S.E. slope
182.00	Change to gradual S.E. slope
194.00	Change to steep S.E. slope
199.00	Drain E., thence over gradual N. slope
205.00	Change to gradual N.E. slope
217.00	Change to gradual W. slope
220.00	Top of spur bears E. and W., descend.
242.00	End of small spur bears E. and W.
247.00	Read bears N.E. and S.W.
247.43	Set iron forest res. bdy. post No. 51, 30 inches in the ground, raised mound of earth and stone 4 ft. base, 1 ft. high around post marked
	No. 51 on S. side of cap
	1905 on S. side of cap
	Reserve in S.E. and S.W. Quadrants
	Thence over level land
258.00	Small spur bears N.E. and S.W.
263.19	Wire fence bears E. and W.
263.50	Small drain, course N. Ascend N.W. slope
270.50	Top of spur bears E. and W. Descend S.E. slope
273.20	Small drain, course S.
275.00	Spur bears N. and S. Descend
278.75	Small drain, course S.
283.30	Small drain, course S.
288.70	Small drain, course S.
292.50	Low spur bears N. and S. Descend
299.50	Drain, course S. Ascend
303.50	Low spur bears N. and S. Descend
313.50	Low spur bears S.E. and N.W. Descend N.E. slope
319.05	Set iron forest reserve bdy. post No. 52, 30 inches in the ground, raise mound of earth and stone 4 ft. base, 1 ft. high around post, marked

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Jan. 11, 1906, furnished by Geological Survey.

No. 52 on S. side of cap
1905 on S. side of cap
RESERVE S.E. and S.W. Quadrants
325.00 Foot of slope N.E. and S.W.
331.90 Drain, course S.W.
335.00 Ascend N.W. slope
339.00 Top of spur bears N.E. and S.W. Descend
341.00 Foot of descent, N.E. and S.W.
354.00 Ravine 4 ft. deep, 70 lks. wide, S.W.
359.25 Top of spur bears N.E. and S.W.
365.00 Top of spur bears N.E. and S.W. Descend
370.50 Drain W., enter valley
373.56 Wire fence bears N. and S.
394.56 Wagonroad, Tejon Pass and Los Angeles
394.94 Set Iron Forest Res. Bdy. Post No. 53 30 inches in the ground,
raised mound of earth and stone 4 ft. base, 1 ft. high
around post, marked
No. 53 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. Quadrants
419.20 Read bears N. and W.
457.00 Ravine 4 ft. deep, 10 lks. wide, course N.
Thence over broken N.W. slope
473.00 Drain, course N.W. Leave prairie, enter timber
bears N. and S.
478.50 Top of spur bears N. and S. Change to gradual S.E. slope.
480.75 Cer. No. 3 La Liebre Rancho
Land mountainous, rolling and level.
Soil second and third rate.
Timber, oak, pine, brush liveoak.
Formation - granite.

From the Cer. No. 3, S. Bdy. La Liebre Rancho heretofore
described.
The C. C. to Secs. 19 and 30, T. 8 N., R. 17 W.
bears N. 28° 33' W. 10.39 chs. which is an oak post 2 ft.
long, 4 in. square marked and witnessed
Thence I run
94.83 S. 61° 30' E. on a random line S. Bdy. La Liebre Rancho
Cer. No. 4 bears N. 28° 30' E. 155 lks. dist. which is an
oak post 2 ft. long by 4 in. square above ground, firmly
set
Marked L. L. No. 4
Witnessed by two bearing trees, the original tree
A white Oak bears N. 56½° W. 379 lks (or 3.79)
I test the position of corner and find it correct
I remark tree L. L. No. 4, B. T.
from which
An Oak 6 ft. in diam., bears N. 30° E. 6.65 lks.
marked L. L. No. 4 B. T.
I remark the tree L. L. No. 4 B. T.

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Jan. 11, 1906, furnished by Geological Survey.

00.06 I return to the corner No. 3. Thence I run S. 62° 25'
E. on a true line along S. bdy. said ground over S. slope
through timber and brush.
00.06 Set iron fer. Res. Bdy. post No. 54, 30 inches in the
ground, raised mound of earth and stone 4 ft. base, 1 ft.
high around post, marked
No. 54 on S. side of cap
1905 on S. side of cap
Reserve on S.E. and S.W. quadrants, also marked
L. L. No. 3 W. C. on N. side of cap
3.00 Change to E. slope
7.20 Drain, course N.W. Ascend N.W. slope through dense brush.
15.00 Top of spur bears N.E. and S.W. Descend E. slope
17.25 Drain, course N.E. Ascend
22.00 Top of spur bears E. and W., Descend in brushy drain
25.00 Leave drain, course E. Ascend N.W. slope through
sage brush.
31.00 Change to gradual N. slope
36.13 Wire fence bears N.W. and S.E.
38.50 Enter oak timber bears N. and S.
44.20 Drain, course N.
63.00 Leave timber bears N.E. and S.W. Enter prairie
67.50 Small drain, course N.
87.32 Wire fence bears N. and S. Enter field
94.83 Cor. No. 4. Land rolling. Soil second rate. Timber
oak, buckeye. Brush live oak and manzanita.
Formation - granite.
Note: No trace C.C. on this course.

80.00 From the cor. No. 4 I run S. 71° 15' E. on a random line
along S. Bdy. of La Liebre Rancho.
End of work
January 31, 1905

February 7:
At this point I set off 34° 45' N. on lat. arc and 15° 19'
S. on decl. arc and determine a meridian with the solar.
Continue line S. 71½°.
202.00 End of day's work.
February 7, 1905.

February 8:
At this point, at 10 a.m., l.m.t., I set off 34° 44' N. on
lat. arc and 15° 00' S. on decl. arc and determine a
meridian with the solar. Continue random line S. 71½° E.
240.00 No trace of closing corner to Sees. 35 and 36
243.00 I set off 14° 59' S. on decl. arc and at 12h 14' 21" p.m.,
l.m.t., observe the sun on the meridian.
The resulting lat. is 34° 44' N.
245.70 C. C. to Sees. 35 and 36 bears S. 18° 45' W. 34 lks. which
is a granite rock 3x14x4 inches above ground firmly set.

Copied from W. H. Thorn's survey of Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

Marked L. L. on N. face
O. C. on S. face
Witnessed by two bearing trees

Note: This corner has been established by a recent survey.

258.35 Corner No. 5 bears N. 18° 45' E. 28 lks. which is a buckeye tree 10 inches in diam., marked L. L. No. 5 on N. face, witnessed by 1 bearing tree in good state of preservation. I return to corner No. 4. Thence I run
.06 S. 71° 18' 30" E. on a true line along S. bdy. La Liebre Rancho, over rolling land through field.
Set iron forest reserve bdy. post No. 55, 30 inches in the ground.
Raised mound of earth and stone 5 ft. base, 1 ft. high around post.
Marked No. 55 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants.
Also marked
L. L. No. 4, W. C. in N.E. quadrant
5.00 Drain, course N., ascend.
17.00 Top of ridge bears N. and S. Descend gradual N.E. slope
25.70 Leave field, bears N. and S.
28.25 Drain, course N.
29.23 Wire fence, bears N. and S. Enter vineyard
37.38 Wire fence and S. Leave vineyard, enter pasture.
49.85 Wire fence bears N. and S. Leave field.
50.00 House, road bears N. and S.
50.75 Drain, course N.
51.27 Wire fence bears N. and S.
53.71 Enter garden
54.05 Sandburg's dwelling bears S. 190 lks.
54.50 Leave garden bears N. and S.
56.29 Outhouse bears S. 5 lks.
56.39 Wire fence bears N. and S. Enter wood pasture. Enter scattering timber. Over gradual N. slope.
76.25 Small drain, course N.
79.00 Set iron forest reserve bdy. post No. 56, 30 inches in the ground. Raise mound of earth and stone 4 ft. base, 1 ft. high around post.
Marked No. 56 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants
L. L. on N. side of cap
From which
An oak 8 in. diam., bears S. 37° E. 130 lks.
dist. Marked S. B. F. R., B. T.
An oak 8 in. diam., ^{B.T.} N. 65° W. 58 lks.
dist. marked L. L. B. T.
79.05 Wire fence bears N. and S., enter field.
116.30 Wire fence bears N. and S. Leave cultivated field.
Continue in scattering oak and brush.

Copied from W. H. Thorn's survey Nov. 28, 1904-
Jan. 11, 1906, furnished by Geological Survey.

121.00	Drain, course N. 20° E.
137.50	Top of spur bears N. and S.
142.00	Small drain, course N.
143.50	Low spur bears N. and S.
152.00	Small drain, course N.
157.50	Small drain, course N. Ascend gradual N.W. slope.
161.11	Set iron forest reserve boundary post No. 57, 30 inches in the ground. Raised mound of earth and stone 4 ft. base, 1 ft. high around post.
	Marked No. 57 on S. side of cap
	1905 on S. side of cap
	Reserve in S.E. and S.W. quadrants
	L. L. on N. side of cap
	from which
	A buckeye 5 inches in diam., bears N. 89° W.
	38 lks. distant marked L. L. B. T.
	A buckeye 8 inches in diam., bears N. 18° W.
	158 lks. dist. marked L. L. B. T.
	A oak 6 inches diam., bears S. 41° E. 92 lks.
	distant marked S. B. F. R., B. T.
161.27	Wire fence bears N. and S.
168.00	Top of low hill, N. and S. Descend gradual N.E. slope
169.00	Small drain, course N.E. Enter dense growth of live oak and buckeye brush.
175.00	Leave dense brush. Enter scattering timber bears N. and S.
184.70	Wire fence bears N. and S.
186.00	Saddle divide bears N.E. and S.W.
187.00	Descend gradual S.E. slope through dense brush.
190.00	Change to nearly level land N. and S.
205.25	Small drain, course N.E. Enter scattering oak and pine.
216.10	Leave level land. Ascend gradual N.W. slope through dense live oak and manzanita and ironwood brush.
218.00	Top of low spur bears N. and S. Descend gradual N.E. slope
220.85	Change to gradual N. slope
229.35	South edge of small meadow.
237.35	Small drain, course N. Ascend gradual N.W. slope.
241.35	Top of low spur bears N. and S. Descend gradual E. slope.
243.00	A pine 30 inches in diam., on line. Cut 2 notches on S.E. and N.W. faces.
244.35	A creek 10 lks. wide, 2 inches deep, course N. 20° W.
	Leave brush, enter scattering oak and pine timber.
	Ascend W. slope.
245.70	Set iron forest reserve boundary post No. 58, 30 inches in the ground. Raised mound of earth and stone 4 ft. base, 1 ft. high around post.
	Marked No. 58 on S. side of cap
	1905 on S. side of cap
	Reserve on S.W. quadrant
	L. L. N. W. quadrant
	W. C. on N.E. quadrant
	T. 8 N., R. 17 W. S. 36 on S.E. quadrant
	S. 35 on S.W. quadrant
	C. C. on S. side of cap on rim.
	Note: This post is on the true corner of the La Liebre Grant, the stone corner set 6 lks. in on the grant.

Land rolling and level
 Soil second rate
 Timber oak, pine and buckeye
 Brush dense growth of live oak, manzanita, ironwood.
 Formation - granite.

February 8, 1905.

S. Bdy. of T. 8 N., R. 17 W.

February 9:

At the closing corner of Secs. 35 and 36, T. 8 N., R. 17 W., on La Liebre Rancho (the stone corner)

At 9 a.m., l.m.t., I set off $34^{\circ} 44'$ N. on lat. arc and $14^{\circ} 42'$ S. on decl. arc and determine a meridian with the solar.

Var. $15^{\circ} 25'$ E.

Thence I run

33.84 S. on a random line between fracl. Secs. 35 and 36.
 Corner of Secs. 1, 2, 35 and 36 bears W. 26 lks. which is a granite stone $6 \times 5 \times 5$ inches above ground, firmly set, marked and witnessed. I return to closing corner to Secs. 35 and 36, La Liebre Rancho. Thence I run
 S. $0^{\circ} 27'$ W. on a true line between fracl. Secs. 35 and 36. Over gradual N.W. slope through timber and brush.
 .06 Bdy. Post No. 58 heretofore described.
 .83 An oak 24 inches in diam., on line out 2 notches on N. and S. faces.
 1.89 Wire fence, N. 80° W. and S. 80° E. Ascend steep N. slope through dense brush and scattering oak and pine.
 24.40 Ravine 50 feet deep, 2 chs. wide, course W.
 Change to steep N.W. slope
 30.00 Change to gradual N.W. slope
 33.84 Corner to Secs. 1, 2, 35 and 36.

S. Bdy. T. 8 N., R. 17 W.

Land mountainous

Soil second and third rate

Timber, pine, oak, brush live oak, buckeye and ironwood.

Formation - granite.

Note: Line poorly blazed, brush not cut out.

At the corner of Secs. 1, 2, 35 and 36 S. Bdy., T. 8 N., R. 17 W., I set off $14^{\circ} 39'$ S. on decl. arc and at 12h $14'$ $24''$ p.m., observe the sun on the meridian. The resulting lat. is $34^{\circ} 44'$ N. which is about $30''$ greater than the proper latitude.

Thence I run

E. on a random line between Secs. 1 and 36.

40.70 1/4 sec. corner bears N. 33 lks which is a granite stone
6 x 12 x 6 inches above ground, firmly set, marked and
witnessed.

February 9, 1905.

February 10:

81.26 Set over corner at 10 a.m., 1. Mar., I set off 34° 44' N.
on lat. arc and 14° 22' S. on decl. arc and determine
a meridian with the solar. Continue random east.
Intersect closing corner to Tps. 7 and 8 N., R. 17 W.
which is a granite stone 6 x 10 x 5 inches above ground,
firmly set, marked and witnessed.
I return to the corner of Secs. 1, 2, 35 and 36, S. bdy.
T. 8 N., R. 17 W.

Thence I run

N. 89° 32' E. on a true line between Secs. 1 and 36.

Ascend W. slope through pine and oak timber, dense
growth of brush.

.06 Set bdy. post No. 59, 30 inches in the ground, raised
mound of earth and stone 4 ft. base, 1 ft. high around
post, marked No. 59 on S. side of cap

1905 on S. side of cap

Reserve in S.E., S.W. and N.W. Quadrants

Also marked

T. 8 N., S. 36 W.O. in N.E. Quadrant

R. 17 W., S. 1 on S.E. Quadrant

T. 7 N., S. 2 on S.W. Quadrant

S. 35 on N.W. Quadrant

1 notch on east and 5 notches on W. edges of cap

7.00 Top of ridge bears N. and S.

8.50 Small drain, course N.

12.50 Top of ridge bears N. and S.

18.50 Descend gradual N.E. slope

20.00 Change to steep E. slope, through dense brush.

34.40 Sidehill drain, course N.E.

37.45 A branch 10 lks. wide (some running water) course N.E.
400 foot descent.

Ascend steep west slope

40.20 Leave timber and brush bears N. and S. Enter prairie

40.70 1/4 Sec. corner

Note: This 1/2 mile only a fir tree blazed and no brush
out at all.

Thence I run E.

44.00 Top of ridge bears N. and S. Change to gradual N.E.

45.00 Enter timber and brush bears N. and S.

52.50 Small drain, course N.

59.00 Enter burnt timber and brush

64.00 Leave brush bears N. and S. Change to gradual E. slope

66.50 Enter burnt brush N. and S.

67.00 At this point I set off 14° 20' S. on decl. arc and at
12h 14' 23" p.m. observe the sun on the meridian, the
resulting lat. is 34° 44' N. which is 30" greater than
the proper latitude.

70.33 Small drain, course N. Thence over gradual N. slope

81.26 Closing corner of Tps. 7 and 8 N., R. 17 W.

Copied from W. H. Thorn's Survey of Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

Land mountainous. Soil second and third rate
Timber pine, oak and white fir. Brush dense growth
of live oak, manzanita, ironwood and buckeye.
Formation - granite.

7.12

From the corner of Tps. 7 and 8 N., R. 17 W., I run N.
on a random line along E. bdy. Sec. 36
C. C. of Tps. 7 and 8 N., R. 16 W., bears E. 12 lks. which
is a granite 20x14x6 inches laying on top of ground,
marked C. C.
I test position of corner by the witnessed line and
re-established it at the same point.
Set sandstone 15 inches in the ground, faced the C. C.
to the E., refresh marks. 6 notches on N., S., and
E. faces. The original bearing tree
An oak N. 45° 5' E. 163 lks. distant has been
killed by fire. I mark new bearing trees as
follows:
An oak 4 ft. in diam., bears S. 81° 45' E.
425 lks. distant marked T. 7 N., R. 16 W.,
S. 6 C. C., B. T.
A pine 8 inches in diam., bears N. 7° 30' E.
249 lks. distant marked T. 8 N., R. 16 W., S. 31 C.C.,
B.T.

.06

I return to the C. C. to Tps. 7 and 8 N., R. 17 W.,
Thence I run
N. 0° 58' E. on a true line along S. bdy. of Sec. 36
over N. slope through dead brush.
Set Iron U.S. Forest Reserve Bdy. Post No. 60, 30 inches
in the ground. Raise a mound of earth and stone, 4 ft.
base, 1 ft. high around post marked
No. 60 on S. side of cap
1905 on S. side of cap
RESERVE in N.E., S.E. and S.W. Quadrants
Also marked
T. 8 N., S. 36 in N.W. Quadrant
W. C. in N. E. Quadrant
T. 7 N., R. 17 W., S. 1 in S.W. Quadrant
C. C. on W. side of cap with 6 notches on
N., S. and W. edges of rim of cap.
C. C. of Tps. 7 and 8 N., R. 16 W.
Most of timber and brush killed by fire
Soil third rate

7.12

South Bdy. of T. 8 N., R. 16 W.

43.21

At the closing cor. of Tps. 7 and 8 N., R. 16 W., at 2 p.m.
l.m.t., I set off 34° 44' N. on the lat. arc and 14° 18' S.
on the decl. arc and determine a meridian with the solar.
Thence I run
E. on a random line between Secs. 6 and 31
1/4 Sec. cor. bears N. 26 lks. which is a granite stone
4x6x5 inches above ground, firmly set, marked and witnessed.

February 10, 1905.

February 11, 1905:

Set over quarter sec. cor. and continue line E.

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February 11, 1905:

82.14 Set over cr. cor. and continue line E.
Cor. of Secs. 5, 6, 31 and 32 bears N. 18 lks. which is
a granite stone 6 x 12 x 4 inches above ground firmly
marked and witnessed.
I return to the corner of Tps. 7 and 8 N., R. 16 W.
Thence I run
N. 89° 39' E. on a true line between Secs. 6 and 31, along
wire fence, over gradual N. slope, through dead brush.
.06 Set iron U.S. Forest Reserve Bdy. Post No. 61, 30 inches
in the ground, raised a mound of earth and stone 4 ft.
base, 1 ft. high around post, marked No. 61 on S. side
of cap.
1905 on S. side of cap
RESERVE in S.E. Quadrant
T. 8 N., S. 31 W.C. in N.E. Quadrant
O. C. on E. side of cap
T. 7 N., R. 16 W., S. 6 in S. E. Quadrant with 6
notches on N., S. and E. edges of rim of cap.
3.50 Leave dead brush, continue in scattering oak and pine
timber.
11.20 Small drain, course N.E.
23.50 A house S., 356 lks.
25.95 An old shed on line
28.90 Small drain, course N.
32.90 An oak 4 ft. in diam., on line, cut 2 notches on E. and
W. faces.
34.46 Wire fence bears N. and S. Enter dense brush
35.10 A small drain course N.W. Ascend gradual W. slope
43.21 1/4 sec. corner
Thence I run N. 89° 46' E.
45.50 Top of low hill bears N. and S. Descend gradual E. slope
At the above point I set off 34° 44' N. on lat. arc and
14° 3' S. on decl. arc and determine a meridian with the
solar.
52.50 Small drain, course N.
56.00 Top of low spur bears N. and S.
57.00 Descend steep E. slope
61.55 Drain, course N. 100 feet descent, ascend steep W. slope
67.50 Top of ridge bears N. and S. Descend gradual E. slope
68.34 A pipe line bears N. 28° 30' E. and S. 23° 30' W.
73.15 Small drain, course N.E. 100 ft. descent.
74.10 Drain, course N.
82.14 Cor. of Secs. 5, 6, 31 and 32.
Land mountainous and rolling,
Soil third rate
Timber pine, oak, dense growth of live oak, manzanita, chemise
and ironwood
Formation - granite
Note: Observation for latitude prevented, cloudy.

39.70 E. on a random line between Secs. 5 and 32.
1/4 Sec. corner bears N. 14 lks which is a granite stone
6x4x6 inches above ground firmly set, marked and witnessed.

February 11, 1905.

Copied from W. H. Thorn's Survey of Nov. 28, 1904,
Jan. 11, 1906, furnished by Geological Survey.

February 13:

- 79.59 Set over cor. and continue line E.
Cor. of Secs. 4, 5, 32 and 33 bears N. 14 lks. which is a
granite stone 6x14x5 inches above ground, firmly set,
marked and witnessed.
I return to the corner of Secs. 5, 6, 31 and 32, S. bdy.
T. 8 N., R. 16 W.,
Thence I run
N. 89° 45' E. on a true line between Secs. 5 and 32 over
rolling land, through dense brush.
.06 Set iron U.S. Forest Reserve Edy. Post No. 62, 30 inches in
the ground, raised mound of earth and stone 4 ft. base,
1 ft. high around post, marked
No. 62 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants, also marked
T. 8 N., S. 32 W. C. in N.E. quadrant
R. 16 W., S. 5 in S.E. quadrant
T. 7 N., S. 6 in S.W. Quadrant
S. 31 in N.W. quadrant with 1 notch on W. and
5 notches on E. edges of rim
4.50 Low ridge bears N. and S. dwelling
From this point S. G. McKenzie's/bears S. 10° E.
~~about~~ 10 chs.
11.85 Dry drain, course N.E. Thence over level land
11.97 Pipe line bears N.E. and S.W.
12.22 Private road bears N.E. and S.W.
14.10 Drain, course N.E.
20.00 Ascend gradual, N.W. slope.
23.75 Top of low ridge bears N. 20° E. and S. 20° W.
Descend gradual S.E. slope
27.50 Change to level land N. and S. Enter cultivated land
33.80 Old road bears N. and S.
33.90 Ascend steep N.W. slope through brush
36.50 Change to gradual N.W. slope
39.70 1/4 sec. corner descend N.E. slope along wire fence
43.50 Small drain, course N.E.
49.00 Foot of descent bears N. and S. Thence over level land
in oak grove canyon.
50.00 Leave brush bears N. and S.
51.50 Draw 5 lks. wide, course N.
65.14 Wire fence bears N.W. and S.E.
65.17 Set iron U.S. Forest Reserve Post No. 63, 30 inches in the
ground. Raised mound of earth and stone 4 ft. base, 1 ft.
high around post marked
No. 63 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrant
65.30 County wagon road bears N.W. and S.E.
66.00 Enter cultivated land bears N.W. and S.E.
76.25 Leave field bears N. and S.
Enter dense brush and scattering timber
78.25 Bend in drain from S.E. to S. 50° W.
Ascend steep S.W. slope
79.59 Corner of Secs. 4, 5, 32 and 33.

Copied from W. H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

Land hilly and level
Soil second and third rate
Timber pine and oak; liveoak, chemise, manzanita
and ironwood brush
Formation - granite

At the corner of Secs. 4, 5, 32 and 33, S. bdy. of T. 8 N.,
R. 16 W., at 9 a.m., l. m. t., I set off $34^{\circ} 44'$ N. on the
lat. arc and $13^{\circ} 23'$ S. on decl. arc and determine a
meridian with the solar.

Thence I run

39.93 E. on a random line between Secs. 4 and 33
1/4 Sec. cor. bears N. 14 lks. which is a granite rock
4 x 10 x 5 inches above ground, firmly set, marked and
witnessed. Set over corner and continue line.
At this qr. sec. corner I set off $13^{\circ} 21'$ S. on decl.
arc and at 12h 14' 24" p.m., l.m.t., observe the sun on
the meridian. The resulting lat. is $34^{\circ} 44'$ N. which
is about $30''$ greater than the proper latitude. Continue
line east.

78.57 Corner of Secs. 3 and 4, T. 7 N., R. 16 W., bears N. 14
lks. which is a granite stone 6 x 4 x 6 inches above
ground firmly, set, marked and witnessed.

80.19 Corner of Secs. 33 and 34, bears N. 14 lks. which is a
granite stone 5 x 3 x 5 inches above ground, firmly set,
marked and witnessed. I return to the corner of Secs.
4, 5, 32 and 33.

Thence I run

N. $89^{\circ} 48'$ E. on a true line between Secs. 4 and 33 over
S.W. slope through scattering timber and dense brush.
1.75 Sidehill drain, course S.W. Change to steep W. slope.
5.50 Change to gradual S. slope
9.75 Drain, course S.W. Ascend steep W. slope
15.75 Change to gradual S.E. slope
18.20 Small drain, course S.W. changes to S.W. slope
20.00 Change to gradual S.E. slope
24.00 Drain, course S.W. Ascend gradual S.W. slope
28.00 Top of ridge bears N. and S. Descend steep S.E. slope
31.25 Small drain, course S.W. Ascend gradual S.W. slope
33.00 Small drain bears S.W.
37.50 Head of drain, course S.W.
39.93 1/4 Sec. corner.
41.50 Top of ridge bears N. and S. Thence over south slope
49.00 Head of drain, course S.
55.50 Descend E. slope
58.50 Drain, course N. Ascend N.W. slope
63.50 Change to N.E. slope
65.50 Drain, course N.E.
71.00 Drain, course N.W. Ascend N.W. slope
Leave timber, enter prairie N.E. and S.W.
78.57 Cor. of Secs. 3 and 4, T. 7 N., R. 16 W.
80.19 Cor. of Secs. 33 and 34, T. 8 N., R. 16 W.
Land hilly, soil third rate.
Timber oak and pine; dense brush liveoak and chemise.

February 13, 1905.

Copied from W. H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

February 14:

At the corner of Secs. 33 and 34, S. bdy. T. 8 N., R. 16 W., at 9 a.m., l.m.t., I set off ~~34°~~ 44' N. on the lat. arc and 13° 2' S. on the decl. arc and determine a meridian with the solar.

Thence I run

- 40.26 E. on a random line along the S. bdy. Sec. 34.
1/4 Sec. corner bears N. 14 lks. which is a granite stone 4 x 6 x 5 inches above ground firmly, set, marked and witnessed.
- 78.80 Set over corner and continue line E.
C. C. of Secs. 2 and 3, T. 7 N., R. 16 W., bears N. 24 lks. which is a granite stone 2 x 6 x 5 inches above ground, firmly set, marked and witnessed.
- 80.43 Corner of Secs. 34 and 35, T. 8 N., R. 16 W., bears N. 24 lks. distant which is a granite stone 2 x 5 x 5 inches above ground, firmly set, marked and witnessed. I return to the corner of Secs. 33 and 34, S. bdy. T. 8 N., R. 16 W.
- Thence I run
N. 89° 48' E. on a true line along S. bdy. Sec. 34.
- .06 Through prairie over W. slope.
Set iron U.S. Forest Reserve Bdy. Post No. 64, 30 inches in the ground, raise a mound of earth and stone 4 ft. base, 1 ft. high around post, marked
No. 64 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants; also marked
T. 8 N., S. 34, W.C. in N.E. quadrant
R. 16 W., S. 33 in N.W. quadrant with 3 notches on E. and W. edges of rim of cap
- 1.28 Top of ridge bears N.E. and S.W.
- 1.35 Wire fence bears S. and E. Thence along wire fence over gradual E. slope
- 15.43 W. side of shallow pond bears N.E. and S.
- 25.48 East side of pond bears N.W. and S.E.
- Ascend gradual S.W. slope
- 40.26 1/4 Sec. corner
Thence I run N. 89° 38' E.
- 43.00 Drain, course N.E. Enter timber bears N.E. and S.W.
- Ascend N.W. slope
- 47.85 Trail, bears N.E. and S.W.
- 49.70 Change to N.E. slope
- 51.50 Bend in same trail from N.W. to N.E.
- 52.50 Change to steep N.W. slope. Leave timber bears N.E. and S.W.
- 59.50 Change to nearly level land.
- 71.00 Leave prairie, enter pine and oak timber, N.W. and S.E.
- 71.50 Change to gradual N.E. slope
- 74.00 Change to N.W. slope
- 78.80 C. C. to Secs. 2 and 3, T. 7 N., R. 16 W.
- 80.43 Corner of Secs. 34 and 35, T. 8 N., R. 16 W.
Land mountainous and level
Soil second and third rate
Timber pine and oak
Dense brush live oak.
Formation - granite.

Copied from W. H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

40.05 East on a random line along S. Bdy. Sec. 35
1/4 Sec. corner bears N. 23 lks. which is a granite stone
5 x 8 x 3 inches above ground firmly set, marked and
witnessed.

45.75 Set over corner and continue line E.
At this point I set off 13° 0' S. on decl. arc and at
12h 14' 22" p.m., I observe the sun on the meridian.
The resulting lat. is 34° 44' N. which is 30" greater
than the proper lat.

79.97 Corner of Secs. 35 and 36 bears N. which is a fieldspar
4 x 8 x 8 inches above ground, firmly set, marked and
witnessed.

I return to the corner of Secs. 34 and 35, S. bdy. of
T. 8 N., R. 16 W.,
Thence I run
N. 89° 40' E. on a true line along S. Bdy. Sec. 35 over
N. slope, through pine timber and brush.

.06 Set iron U.S. Forest Reserve Bdy. Post No. 65, 30 inches
in the ground, raised mound of earth and stone, 4 ft.
base, 1 ft. high around post, marked
No. 65 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. Quadrants; also marked
T. 8 N., S. 35 W.C. in N.E. Quadrant
R. 16 W., S. 34 in N.W. quadrant, with 4 notches
on W. and 2 notches on E. edges of rim of cap

.50 Leave timber bears N.E. and S.W.

5.00 Leave oak brush, enter prairie and sage brush N.W. and
S.E.

14.20 An old road bears N.W. and S.E. Change to S. slope

20.00 Change to S.E. slope

23.70 Small drain, course S.E.

28.50 Small drain, course S.E.

30.00 Change to E. slope through scattering timber through
brush

35.40 Wash 50 lks. wide, course N. Ascend steep W. slope

37.65 Private wagon road bears N.E. and S.W.

39.00 Change to N.E. slope

40.05 1/4 sec. corner
Thence I run N. 89° 51' E.

40.25 Same road bears N. 40 lks. course from N. 80° W. to N.
60° E. change to N.W. slope through dense brush.

45.75 Change to E. slope

56.50 Drain, course N. 50 ft. descent, ascend N.W. slope

58.50 Top of spur bears N. and S. Descend steep E. slope

61.70 Wire fence bears N. 25° E. and S. 25° W.

63.00 Foot of 100 ft. descent N. and S.

63.80 A dry creek 20 lks. wide, course N.

64.05 A mining claim corner bears S. 27 lks.

64.50 Ascend steep N.W. slope

74.25 Top of ridge bears N. and S. 200 ft. ascent. Descend
steep E. slope.

77.00 A ravine, course N. Ascend steep W. slope

79.97 Cor. of Secs. 1, 2, 35 and 36.
Land mountainous, soil third rate.
Timber, pine, oak, dense brush. Liveoak, manzanita, ironwood and
chamise.
Formation granite.

February 14, 1905

Copied from W.H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

February 19:

E. on a random line bet. Secs. 1 and 36.
15.00 At this point at 9 a.m., l.m.t., I set off $34^{\circ} 44'$ N. on lat. arc and $11^{\circ} 18'$ S. on decl. arc and determine a meridian with the solar. Var. $15^{\circ} 45'$ E.
40.15 $1/4$ sec. corner bears S. 11 lks. which is a granite stone $3 \times 6 \times 6$ inches above ground, firmly set, marked and witnessed Set over corner and continue line E.
80.25 Cor. of Tps. 7 and 8 N., Rs. 15 and 16 W., bears N. 6 lks. which is a granite stone $8 \times 6 \times 5$ inches above ground firmly set, marked and witnessed. I mark new bearing trees as follows:
A pine 8 inches in diam., bears S. 36° W. 140 lks. distant marked T. 7 N., R. 16 W., S. 1 B.T.
Dig pits $24 \times 24 \times 12$ inches N., S. and W., 4 ft. distant and E. 8 ft. distant.
I return to the corner of Secs. 1, 2, 35 and 36
Thence I run S. $89^{\circ} 51'$ E. on a true line between Secs. 1 and 36.
Over W. slope through scattering pine and dense growth of live oak brush.
.06 Set iron U.S. Forest Reserve Bdy. Post No. 66, 24 inches in the ground. Raised mound of earth and stone 5 ft. base, 1 $1/2$ ft. high around post, marked
No. 66 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked
T. 8 N., S. 36° W. 0. in N.E. quadrant
R. 16 W., S. 1 in S.E. quadrant
T. 7 N., S. 2 in S.W. quadrant
S. 35 in N.W. quadrant with 1 notch on E. and 5 notches on W. edges of rim.
4.75 Top of ridge bears N.W. and S.E.
8.00 Drain, course W.
11.50 Change to N. slope.
14.44 Wire fence, N. 20° W. and S. 20° E.
15.50 Drain, course N.E. Thence along N. slope.
21.50 Change to N.E. slope
23.00 Drain, course N. Ascend N.W. slope
27.50 Top of ridge bears N. and S. Descend gradual N.E. slope
38.65 Drain, course N. 60° E.
40.15 $1/4$ section corner.
Thence I run N. $89^{\circ} 55'$ E.
40.50 A rocky point bears N. and S.
42.75 Small drain, course N.W. Ascend N.W. slope
47.27 Top of ridge bears N.E. and S.W. Descend gradual, N.E. slope through open scattering timber
49.15 Wire fence bears N.E. and S.W.
63.00 Drain, course S.E. Change to gradual S.W. slope
77.00 Change to gradual S.E. slope
80.25 Cor. of Tps. 7 and 8 N., Rs. 15 and 16 W.
Land rolling, soil third rate. Timber scattering pine and oak. Live oak brush. Formation granite.

At the cor. of Tps. 7 and 8 N., Rs. 15 and 16 W.,
I set off $11^{\circ} 16'$ S. on the decl. arc and at 12h 14' p.m.,
l.m.t., observe the sun on the meridian. The resulting
lat. is $34^{\circ} 44'$ N. which is about $30''$ greater than the
proper lat.

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Thence I run
40.82 E. on a random line between Secs. 6 and 31
Intersect 1/4 sec. corner which is a granite stone 6x6x6
inches above ground, firmly set, marked and witnessed.
Continuous random line E.
81.00 Corner of Secs. 5, 6, 31 and 32 bears N. 38 lks., which is
a granite stone 14x6x6 inches above ground, firmly set,
marked and witnessed.

Note: There is a wood post 4 inches square 12 inches above
ground, set with a stone properly marked.

I return to the corner of Tps. 7 and 8 N., Rs. 15 and 16 W.
Thence I run
.06 E. on a true line between Secs. 6 and 31, over gradual E.
slope, through scattering pine
Set iron U. S. Forest Reserve Bdy. Post No. 67, 30 inches in
the ground, raise mound of earth and stone 4 ft. base, 1 ft.
high around post, marked
No. 67 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants
Also marked
T. 8 N., S. 31 W. C. in N.E. quadrant
R. 15 W., S. 6 in S.E. quadrant
T. 7 N., S. 1 in S.W. quadrant
R. 16 W., S. 36 in N.W. quadrant with 6 notches on N., S.,
E and W. edges of rim.

15.22 Change to E. slope, leave scattering pine timber.
27.00 Enter scattering pine timber
29.00 Saddle divide bears N. and S.
34.50 Breech's house bears S. 10 obs.
38.00 Feet of descent bears N. and S. 400 ft. below township corner.
Thence over level land through scattering yucca palms
and sage brush.

40.82 1/4 section corner.
Thence I run
N. 89° 27' E.
46.28 Road bears N.E. and S.W.
60.50 Leave valley, ascend gradual W. slope.
64.00 Wire fence bears N. and S.
65.00 Top of low ridge bears N. and S. Descend gradual E. slope.
79.00 Road bears N. 20° W. and S. 20° E. Thence over level land.
81.00 Corner of Secs. 5, 6, 31 and 32.
Land level and mountainous.
Soil third rate.
Timber pine, sagebrush and yucca palms.

40.25 E. on a random line between Secs. 5 and 32
1/4 sec. corner bears N. 30 lks. which is a granite stone
3x6x6 inches above ground, firmly set, marked and witnessed.
Set over corner and continue line E.
80.40 Cor. of Secs. 4, 5, 32 and 33 bears N. 30 lks. which is a granite
stone 6x10x6 inches above ground, firmly set, marked and
witnessed.
I return to the corner of Secs. 5, 6, 31 and 32.

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Thence I run
N. 89° 34' E. on a true line between Secs. 5 and 32, over
level land, through yucca palms and sagebrush.
.06 Set iron U. S. Forest Reserve Bdy. Post No. 68, 30 inches in
the ground. Raised mound of earth and stone 4 ft. base, 1 ft.
high around post marked:
No. 68 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants, also marked
T. 8 N., S. 32 W. C. in N.E. quadrants
R. 15 W., S. 5 in S.E. quadrants
T. 7 N., S. 6 in S.W. quadrants,
S. 31 in N.W. quadrants, with 1 notch on W. and 5 notches
on E. edges of cap.
2.95 Wire fence bears N. and S.
3.05 Wagon road bears N. and S.
40.25 1/4 section corner
80.40 Corner of Secs. 4, 5, 32 and 33.
Land level
Soil sandy, third rate.
Yucca palm and sagebrush.

N. 89° 34' E. on a random line between Secs. 4 and 33.
40.06 Find no trace of 1/4 section corner.
Set temporary. Continue line E.
80.12 Find no trace of corner of Secs. 3, 4, 33 and 34.
Set temporary corner.

February 19, 1905.

February 20:
At 8 a.m., l.m.t., I set off 34° 44' N. on lat. arc and
10° 57' S. on decl. arc and determine a meridian with the
solar. Continue random line E. between Secs. 3 and 34.
40.06 No trace of 1/4 sec. corner. Set temp.
80.12 No trace of corner of Secs. 2, 3, 34 and 35.
Set temporary corner. Continue line E. between Secs. 2 and 35
40.06 No trace of 1/4 sec. corner. Set temporary.
80.18 Corner of Secs. 1, 2, 35 and 36 bears S. 3 lks. which is
a granite stone 5x4x4 inches above ground, firmly set, marked
and witnessed
A redwood post 4 inches square, 24 inches above ground set
on the N. side of stone properly marked
This falling and distance answers to a correction of 30 seconds
per mile and 2 lks. east per mile
Note: I make inquiries of the settlers along this line in
regard to the missing corner; they state that corners were
destroyed by unknown parties.
I return to the corner of Secs. 4, 5, 32 and 33.
Thence I run
N. 89° 33' E. on a true line between Secs. 4 and 33, over
level land, through scattering yucca palm.
.06 Set iron U.S. Forest Reserve Bdy. Post No. 69, 30 inches in
the ground, raised mound of earth 4 ft. base, 1 ft. high
around post, marked:

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No. 69 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants, also marked
T. 8 N., S. 33 W. O. in N.E. quadrant
R. 15 W., S. 4 in S.E. quadrant
T. 7 N., S. 5 in S.W. quadrant
S. 32 in N.W. quadrant, with 2 notches on W. and
4 notches on E. edges of rim
4.00 Dim road bears N. and S.
40.07 Set a granite stone 23x12x11 inches, 17 inches in the ground
for 1/4 sec. corner marked 1/4 on N. face, dig pits
18x18x12 inches E. and W. of corner, 3 1/2 ft. distant,
raised a mound of earth 3 1/2 ft. base, 1 1/2 ft high, N. of
corner.
55.00 Wagon road bears N. 60° E. and S. 60° W. Thence over gradual
N. slope through prairie.
80.14 Set a granite stone 20x14x10 inches, 15 inches in the ground
marked with 3 notches on E. and W. edges, dig pits 18x18x12
inches in each section 5 1/2 ft. distant, raised mound of
earth 5 ft. base, 2 1/2 ft. high N. of corner.
Land level and gently rolling.
Soil sandy, third rate.
Scattering yucca palms and sagebrush on first half
mile.

.06 N. 89° 33' 30" E. on a true line between Secs. 3 and 34
over nearly level land, through prairie.
Set iron U. S. forest reserve bdy post No. 70, 30 inches
in the ground, raised mound of earth 4 ft. base, 1 ft.
high around post, marked:
No. 70 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants, also marked
T. 8 N., S. 34 W. O. in N.E. quadrant
R. 15 W., S. 3 in S.E. quadrant
T. 7 N., S. 4 in S.W. quadrant
S. 33 in N.W. quadrant, with 3 notches on E. and
W. edges of rim.
3.85 S.W. corner of field bears N. 10 lks. Thence along
center of dim road and wire fence
14.00 Ascend gradual N.W. slope
16.00 Top of bench, thence over level land
26.00 S.W. corner of barn bears N. 5° 25' W. 240 lks. distant.
40.07 Set a granite stone 24x10x8 inches 18 inches in the ground
marked 1/4 on N. face, dig pits 18x18x12 inches E. and W.
of corner, 3 1/2 ft. distant. Raised mound of earth 3 ft.
base, 1 1/2 ft. high, W. of corner.

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72.00 Bench 8 ft. high bears N. and S.
80.14 Set a granite stone 15x8x6 inches, 10 inches in the ground for corner of Secs. 2, 3, 34 and 35, marked with 4 notches on W. and 2 notches on E. faces, dig pits 18x18x12 inches in each section, 5 1/2 ft. distant. Raised a mound of earth 5 ft. base, 2 1/2 ft. high, N. of corner.
Land level.
Soil sandy, third rate.
No timber or brush.

.06 N. 89° 33' 30" E. on a true line between Secs. 2 and 35 over level land.
Set iron U.S. Forest Reserve Bdy. Post No. 71, 30 inches in the ground, raised mound of earth, 4 ft. base, 1 ft. high around post, marked
No. 71 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants; also marked
T. 8 N., S. 35 on N.E. Quadrant
R. 15 W., S. 2 in S.E. Quadrant
T. 7 N., S. 3 in S.W. Quadrant
S. 34 in N.W. Quadrant with 2 notches on E. and 4 notches on W. edges of rim of cap.

5.50 Old Tejon and Los Angeles wagonroad bears N.W. and S.E.
12.30 Ascend gradual N.W. slope of round hill.
15.00 Top of hill, thence over gradual S.E. slope
25.00 Lancaster and Fairmont wagonroad bears N.E. and S.W.
Thence over gently rolling land.
36.30 Wash 10 lks. wide, course N.E.
40.07 Set a granite stone 15x12x8 inches, 10 inches in the ground (deposited marked stone 5x5x4 inches, 24 inches in ground under stone) for quarter section corner, marked 1/4 on N. face. Dig pits 18x18x12 inches E. and W. of corner, 3 1/2 ft. distant. Raised mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of corner.

67.20 Ascend gradual S.W. slope
78.50 Top of low ridge bears N. and S. Descend gradual S.E. slope
80.14 Corner of Secs. 1, 2, 35 and 36.
Land level and gently rolling.
Soil sandy, third rate.
No timber or brush.

40.06 N. 89° 34' E. on a random line between Secs. 1 and 36
Find no trace of 1/4 sec. corner. Set temporary corner.
Continue line E.
80.16 Intersect corner of Tps. 7 and 8 N., Rs. 14 and 15 W., which is a granite stone 6x6x6 inches above ground firmly set, witnessed and marked.
I return to the corner of Secs. 1, 2, 35 and 36.

Copied from W. H. Thorne's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

.06 Thence I run N. 89° 34' E. on a true line bet. Secs. 1 and 36 over gradual S. E. slope in prairie
Set iron U. S. For. Res. Bdy. post No. 72 set 30 in. in the ground. Raised mound of earth 4 ft. base, 1 ft. high around post marked
No. 72 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants also marked
T. 8 N., S. 36 W. C. in N. E. quadrants
R. 15 W., S. 1 in S. E. quadrant
T. 7 N., S. 2 in S. W. quadrant
S. 35 in N. W. quadrant with 1 notch on E. and 5 notches on W. edges of cap
10.00 Dim road brs. N. E. and S. W.
14.88 Gram's stone at Fairmount brs. N. 14° 30' E.
21.00 Small drain, course N. E.
25.00 Wire fence brs. N. & S. Enter level land.
40.08 Set a granite stone 15x11x7 in. 10 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18x18x12 in. E. and W. of cor. 3-1/2 ft. dist. Raised mound of earth and stone 3-1/2 ft. base, 1-1/2 ft. high N. of cor.
45.50 Dim road brs. N. W. and S. E.
45.58 Gram's stone brs. N. 46° 10' W.
60.54 Fairmount and Lancaster wagonroad brs. S. 66° E. and N. 58° W.
62.24 Set iron U. S. For. Res. Bdy. Post No. 73, 30 in. in the ground, raised mound of earth 4 ft. base, 1 ft. high, around post, marked
No. 73 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants
80.16 Cor. of Tps. 7 and 8 N., Rs. 14 and 15 W.
At this cor. I set off 10° 55' S. on decl. arc and at 12h. 13' p.m., l.m.t., observe the sun on the meridian. The resulting lat. is 34° 44' N. which is about 30" greater than the correct lat.
Land level and gently rolling. Soil sandy, third rate. No timber or brush.
From this Tp. cor. a windmill brs. N. 67° 30' E.

N. Bdy. Tp. 7 N., R. 14 W. of
Note: Failed to find Norway's cor./Tps. 7 and 8 N., Rs. 14 and 15 W., described in field notes of N. Bdy. of Tp. 7 N., R. 15 W., surveyed in 1891.
Thence I run E. on a random line bet. Secs. 6 and 31
40.00 Find no trace of 1/4 sec. cor. Continue line E.
80.00 Find no trace of cor. of Secs. 5, 6, 31 and 32.
Set temp. cor.

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- 44.16 Continue random line E. bet. Secs. 5 and 32
1/4 sec. cor. brs. N. 243 lks. which is a granite
stone 4x6x6 in. above ground, firmly set, and marked
1/4 on N. face.
- 84.24 Continue random line E.
Cor. of Secs. 4, 5, 32 and 33 brs. N. 260 lks. which
is a granite stone 3x6x8 in. above ground, firmly
set and marked with two notches on W. and 4 notches
on E. faces
- .06 I return to the cor. of Tps. 7 and 8 N., Rs. 14 and 15 W.
Thence I run N. 88° 51' E. on a true line bet. Secs. 6
and 31, over level land
Set iron U. S. For. Res. Bdy. Post No. 74, 30 ins. in
the ground, raised mound of earth 4 ft. base, 1 ft. high
around post marked,
No. 74 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants
Also marked
T. 8 N., S. 31 W. O. in N. E. quadrant
R. 14 W. S. 6 in S. E. quadrant
T. 7 N., S. 1 in S. W. quadrant
R. 15 W., S. 36 in N. W. quadrant with 6 notches
on N., S. E. and W. edges of rim
- 44.16 Set a granite stone 16x11x8 in. 10 in. in the ground
for 1/4 sec. cor. marked 1/4 on N. face, dig pits
18x18x12 in. E. and W. of cor. 3-1/2 ft. dist. Raised
mound of earth N. of cor.
Note: This correction for 1/4 cor. agrees with old
fence line. For this reason throw all the excess on
west half of mile.
Windmill brs. N. 30° 30' W. from 1/4 Sec. cor.
57.50 Old road brs. N. 60° W. and S. 60° E.
67.00 Top of same hill brs. N. & S. Descend gradual E.
slope.
73.50 Same road brs. N. E. and S. W.
84.16 Set a granite stone 16x10x9 in. 10 in. in the ground
for cor. of Secs. 5, 6, 31 and 32 marked with 1
notch on west and five notches on E. faces; dig
pits 18x18x12 in. in each section, 5-1/2 ft. dist.
Raised mound of earth 5 ft. base, 2-1/2 ft. high N.
of cor.
Land level and rolling.
Soil sandy, third rate.
No timber or brush.

- .06 North 88° 53' E. on a true line bet. Secs. 5 and 32
over level land, through prairie
Set iron U. S. For. Res. Bdy. Post No. 75, 30 in. in
the ground, raised mound of earth 4 ft. base, 1 ft.
high around post, marked
No. 75 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants, also marked
T. 8 N., S. 32 W. O. in N. E. quadrant
R. 14 W., S. 5 in S. E. quadrant
T. 7 N., S. 6 in S. W. quadrant
S. 31 in N. W. quadrant with 1 notch on W.
and 5 notches on E. edges of rim.

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5.80 Old road N. & S.
6.90 Small drain, Course S. E.
14.70 Old road brs. N. 60° W. and S. 60° E.
Ascend gradual S. W. slope
40.00 1/4 sec. cor.
Thence I run N. 89° 45' E. over level land along old road
80.08 Cor. of Secs. 4, 5, 32 and 33 heretofore described
Land level and rolling. Soil sandy, third rate.
No timber or brush.
Land has been cultivated on both sides of line but now
abandoned.

February 20, 1905

February 21:

At the cor. of Secs. 4, 5, 32 and 33, N. Bdy. T. 7 N.,
R. 14 W., at 8 a.m., l.m.t., I set off 34° 44' N. on
lat. arc and 10° 36' S. on decl. arc and determine a
meridian with the solar.
Thence I run S. on a random line bet. Secs. 4 and 5
38.90 1/4 sec. cor. brs. W. 45 lks. which is a redwood post 4
in. sq., 6 in. above ground, firmly set and marked.
I set a granite stone 16x12x7 in. 10 in. in the ground,
alongside the post, marked 1/4 on W. face; dig pits
18x18x12 in. N. & S. of cor. 3-1/2 ft. dist. Raised
mound of earth 3-1/2 ft. base, 1-1/2 ft. high West of
cor. Set over cor. and continue line south.
79.73 Cor. of Secs. 4, 5, 8 and 9 br. W. 51 lks. which is a
redwood post 4 in. sq. even with the top of ground, in
mound of earth, properly marked. I set a granite
stone 17x12x8 in. 12 in. in the ground with the post,
marked 4 notches on E. and 5 notches on S. faces;
dig pits 18x18x12 in. in each section 5-1/2 ft. dist.
Raised mound of earth 5 ft. base, 2-1/2 ft. high W.
of cor. I return to the cor. of Secs. 4, 5, 32 and
33.
Thence I run S. 0° 39' W. on a true line bet. Secs.
4 and 5 over nearly level land, once cultivated land,
along Kern River Power Co. Line, west line of poles.
.06 Set iron U. S. For. Res. Bdy. Post No. 76, 30 in. in
the ground, raise mound of earth 4 ft. base, 1 ft.
high around post marked,
No. 76 on S. side of cap
1905 on S. side of cap
Reserve in S. W. quadrant, also marked,
T. 8 N., S. 33 W. C. in N. E. quadrant
R. 14 W., S. 4 in S. E. quadrant,
T. 7 N., S. 5 in S. W. quadrant
S. 32 in N. W. quadrant with 2 notches on W. and
4 notches on E. edges of rim
38.90 1/4 sec. cor.
Thence I run S. 0° 44' W.
39.20 Descend steep south slope
44.00 Change to level land east and west

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Jan. 11, 1906, furnished by Geological Survey.

63.70 Fairmont and Lancaster road brs. N. 60° W. and S. 60°
E. Ascend gradual N. slope
61.30 Set iron U. S. For. Res. Bdy. Post No. 77, 30 in. in
the ground, raised mound of earth 4 ft. base, 1 ft.
high around post, marked
No. 77 on S. side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants
68.25 Change to gradual S. slope
78.00 Change to level land east and west
79.73 Cor. of Secs. 4, 5, 8 and 9
From this cor. an old adobe wall brs. N. 74° E.
121 lks.
Land level and rolling
Soil sandy third rate.

40.00 South on a random line bet. Secs. 8 and 9
Find no trace of 1/4 sec. cor. Set temp. and continue
line S.
80.48 Cor. of Secs. 8, 9, 16 and 17 brs. E. 70 lks. which is
a redwood post 4 in. sq., 1 ft. above ground, firmly set
and marked. I set a granite stone 20x8x6 in. 15 in. in
the ground, with the post, marked with 4 notches on S.
and 4 notches on E. faces. Dig pits 18x18x12 in. in
each section, 5-1/2 ft. dist., raised mound of earth
5 ft. base, 2-1/2 ft. high W. of cor. I return to the
cor. of Secs. 4, 5, 8 and 9.
Thence I run S. 0° 30' E. on a true line bet. Secs. 8
and 9.
.06 Set iron U. S. For. Res. Bdy. Post No. 78, 30 in.
in the ground, raised mound of earth 4 ft. base, 1 ft.
high around post, marked
No. 78 on S. side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants, also marked
T. 7 N., S. 4 W. C. in N. E. quadrant
R. 14 W., S. 9 in S. E. quadrant
S. 8 in S. W. quadrant
S. 5 in N. W. quadrant, with 5 notches on S. and 4
notches on E. edges of rim
Thence over level land.
9.00 A small drain N. E.
15.00 Leave valley, ascend N. W. slope brs. N. E. and S. W.
19.50 Top of hill brs. E. and W. Descend S. E. slope
24.00 Drain, N. E. Ascend N. W. slope
31.30 Change to S. E. slope
38.00 Small drain, course N. E.
39.80 Wire fence E. and W.
40.24 Set a granite stone 22x12x9 in. 16 in. in the
ground for 1/4 sec. cor. marked 1/4 on W. face.
Dig pits 18x18x12 in. N. & S. of cor. 3-1/2 ft. dist.
Raised mound of earth 3-1/2 ft. base, 1-1/2 ft. high
W. of cor. Thence along gradual E. slope.
49.10 A dim road brs. N. E. and S. W. Enter level land

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61.00	Enter a dry wash 100 lks. wide from S. to N. E.
67.00	Leave wash from S. W. to N. Ascend N. W. slope
75.00	Change to level land, brs. N. E. and S. W.
80.48	Cor. of Secs. 8, 9, 16 and 17. Land level and rolling. Soil sandy, third rate.

40.00	South on a random line bet. Secs. 16 and 17 No trace of 1/4 sec. cor. Set temp. cor. Continue line south.
80.54	Cor. of Secs. 16 and 17, 20 and 21 brs. E. 79 lks. which is a granite stone 4x4x4 in. above ground, firmly set, marked and witnessed. I return to the cor. of Secs. 8, 9, 16 and 17. Thence I run S. 0° 34' E. on a true line bet. Secs. 16 and 17
.06	Over level land, through prairie Set iron U. S. For. Res. Bdy. Post No. 79, 30 in. in the ground, raised mound of earth 4 ft. base, 1 ft. high around post, marked No. 79 on S. side of cap 1905 on S. side of cap Reserve in S. W. and N. W. quadrants Also marked T. 7 N., S. 9 W. C. in N. E. quadrant R. 14 W., S. 16 in S. E. quadrant S. 17 in S. W. quadrant S. 8 in N. W. quadrant, with 4 notches on E. and S. edges of rim From this sec. cor. W. line of poles of Kern River Power Co. brs. E. 38 lks.
17.00	Change to gradual S. E. slope
23.48	Set iron U. S. For. Res. Bdy. Post No. 80, 30 in. in the ground, raised mound of earth 4 ft. base, 1 ft. high around post marked No. 80 on S. side of cap 1905 on S. side of cap Reserve in S. W. and N. W. quadrants
24.40	Tejon Pass Road N. E. and S. W.
26.45	Ravine 15 lks. wide, 5 ft. deep, course N. E. An old road washed out.
32.00	Small drain, course N. E. Ascend gradual N. W. slope
37.75	Change to gradual S. W. slope
40.27	Set a granite stone 20x11x8 in. 15 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dig pits 18x18x12 in. N. and S. of cor. 3-1/2 ft. dist., raised mound of earth 3-1/2 ft. base, 1-1/2 ft. high W. of cor.
41.25	Dim road brs. E. and W.
68.00	Change to gradual S. E. slope
71.00	Road brs. N. E. and S. W.
72.50	Small drain, course N. E. Ascend gradual N. W. slope

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75.00 Change to gradual N. E. slope
80.54 Cor. of Secs. 16, 17, 20 and 21
Land level and rolling
Soil sandy, third rate.

40.11 S. on a random line bet. Secs. 20 and 21
Intersect 1/4 sec. cor. which is a granite stone 2x8x6
in. above ground firmly set, marked and witnessed.
79.83 Cor. of Secs. 20, 21, 28 and 29, brs. E. 41 lks. which
is a granite stone 5x8x10 in. above ground, firmly
set, marked and witnessed.
I return to the cor. of Secs. 16, 17, 20 and 21, thence
I run S. on a true line bet. Secs. 20 and 21, over
nearly level land along W. line of Kern River Power Co.
poles.
.06 Set iron U. S. For. Res. Bdy. Post No. 81, 30 in. in
the ground, raised mound of earth 4 ft. base, 1 ft.
high around post, marked
No. 81 on S. side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants, also marked
T. 7 N., S. 16 W. C. in N. E. quadrant
R. 14 W., S. 21 in S. E. quadrant
S. 20 in S. W. quadrant
S. 17 in N. W. quadrant with 4 notches on E. and 3
notches on S. edges of cap
3.75 Change to S. slope
6.50 A dry wash 20 lks. wide, course N. E. Thence over
level land.
12.50 Ascend N. W. slope
15.50 Change to S. W. slope
18.00 Enter level land N. E. and S. W.
29.50 Ascend N. W. slope
32.00 Top of spur brs. N. E. and S. W. Thence along E. slope
37.50 Change to gradual N. E. slope
38.80 Wire fence N. 30° E. and S. 30° W.
40.11 1/4 sec. cor.
At this 1/4 sec. cor. I set off 10° 33' S. on decl.
arc and at 12h 13' 57" p.m., l.m.t. observe the sun
on the meridian. The resulting lat. is 34° 41' N.
which is about 30" greater than the proper lat.
Thence I run S. 0° 35' E.
45.00 Change to gradual N. slope.
51.75 Change to gradual S. slope.
53.00 Change to gradual N. E. slope.
58.00 Drain, course N. E. Enter liveoak and chemise brush
brs. E. and W. Ascend steep N. slope.
66.25 Top of spur brs. E. and W., 100 ft. ascent
Descend steep S. W. slope
69.00 A dry wash 20 lks. wide, course N. W. Foot of 100 ft.
descent.
72.50 Ascend steep N. slope
79.83 Cor. of Secs. 20, 21, 28 and 29.

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Land mountainous and level
Soil second and fourth rate
Timber liveoak, dense growth of chemise and
liveoak brush.

40.35 South on a random line bet. Secs. 28 and 29
1/4 sec. cor. brs. E. 7 lks. which is a granite
stone 3x6x8 in. above ground, firmly set and marked
I dig pits 18x18x12 in. N. and S. of cor. 3-1/2 ft.
dist. Raise mound of earth 3-1/2 ft. base, 1-1/2 ft.
high W. of cor.
Set over cor. and continue line S.
79.73 Cor. of Secs. 28, 29, 32 and 33 brs. W. 12 lks.
which is a granite stone 2x6x6 in. above ground,
firmly set, marked and witnessed.
I return to the cor. of Secs. 20, 21, 28 and 29,
Thence I run S. 0° 6' E. on a true line bet. Secs.
28 and 29 over steep N. E. slope, through brush
along W. line of Poles of Kern River Power Co.
.06 Set iron U. S. For. Res. Bdy. Post No. 82, 30 in.
in the ground, raised mound of earth and stone 4 ft.
base, 1 ft. high around post, marked No. 82, on S.
side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants, also marked
T. 7 W., S. 21 W. C. in N. E. quadrant
R. 14 W., S. 28 in S. E. quadrant
S. 29 in S. W. quadrant
S. 20 in N. W. quadrant with 4 notches on E. and 2
notches on S. edges of rim
1.50 Top of ascend 200 ft. brs. E. and W. Thence over
steep S. E. slope
7.37 Draw, course N. E., 200 ft. descent, ascend steep
N. W. slope
(?) 2.50 Change to gradual N. W. slope
22.00 Leave brush, enter prairie brs. E. and W.
22.63 Wire fence brs. E. and W.
26.00 Top of ridge brs. N. W. and S. E. 500 ft. ascent
30.00 Descend steep S. W. slope
34.00 Change to gradual S. E. slope
40.35 1/4 sec. cor.
Thence I run S. 0° 10' W.
47.50 Change to steep S. E. slope.
51.00 A dry wash 50 lks. wide, course S. W. Ascending
steep N. W. slope
55.80 Change to S. E. slope
60.50 Enter ravine 50 lks. wide, 20 ft. deep, course S. W.
Thence along gradual S. slope.
79.50 Wire fence, enter road brs. E. and W. (Elizabeth Lake
and Lancaster Road).
79.73 Cor. of Secs. 28, 29, 32 and 33
Land mountainous, soil third rate.
Timber live oak, live, (?) manzanita and chemise
brush
Formation granite.

Feb. 21, 1905.

Copied from W. H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

February 22:

- At the cor. of Secs. 28, 29, 32 and 33, T. 7 N., R. 14 W., at 10 a.m., l.m.t., I set off $34^{\circ}40'$ N. on lat. arc and $10^{\circ}12'$ S. on decl. arc and determine a meridian with the solar.
- 40.15 Thence I run S. on a random line bet. Secs. 32 and 33 $1/4$ sec. cor. brs. E. 31 lks. which is a granite stone $4 \times 8 \times 8$ in. above ground, firmly set and marked; I dig pits $18 \times 18 \times 12$ ins. N. and S. of corner, $3-1/2$ ft. dist. Raised mound of earth $3-1/2$ ft. base, $1-1/2$ ft. high W. of cor.
- 80.45 Set over cor. and continue line S.
Cor. of Secs. 32 and 33, S. Edy. of T. 7 N., R. 14 W. brs. E. 26 lks. which is a tapering granite stone 6 in. above ground, firmly set, marked and witnessed. The old post 3 in. sq., one ft. high, set on W. side of stone
- .41 I return to the cor. of Secs. 28, 29, 32 and 33
Thence I run S. $0^{\circ}27'$ E. on a true line bet. Secs. 32 and 33, over gradual S. slope in road.
Set an iron U. S. For. Res. Post No. 83, 30 in. in the ground, raised mound of earth and stone 4 ft. base 1 ft. high around post, marked
No. 83 on S. side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants, also marked
T. 7 N., S. 28 W. C. in N. E. quadrant
R. 14 W., S. 33 in S. E. quadrant
S. 32 in S. W. quadrant
S. 29 in N. W. quadrant with 4 notches on E. and 1 notch on S. edges of rim of brass cap.
- .48 Wire fence brs. E. and W. Leave road, enter cultivated field.
- 1.08 Wire fence brs. N. 20° W. and S. 20° E. Leave cultivated field, enter wagonroad, Los Angeles and Tejon Pass Road
- 3.50 A creek 20 lks. wide, 5 ft. banks, course W.
- 6.00 Wire fence brs. N. 20° W. and S. 20° E. Enter cultivated fields.
- 19.10 Top of low ridge brs. E. and W. Descend in pasture
From this point schoolhouse brs. S. $31^{\circ}45'$ E.
- 26.25 Same creek, course N. E. Thence over nearly level land
- 28.00 Kern Riv. Power Co. Bldg. brs. E. 50 lks.
- 37.00 Wire fence brs. N. 20° W. and S. 20° E. Leave field, enter wagonroad.
- 40.15 $1/4$ sec. cor.
Thence I run S. $0^{\circ}22'$ E.
- 40.20 A small drain, course W.
- 41.00 Wire fence brs. S. 20° E. and N. 40° W. Enter field
- 43.45 Wire fence E. and W. Leave field
- 45.30 Wire fence E. and W. and N. 10° E. Enter Road.
- 46.50 Elizabeth Lake Store and Postoffice brs. W. 2 lks.

Copied from W. H. Thorne's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey.

48.90 Ascend gradual N. W. slope
50.25 Change to S. W. slope
56.45 Same creek, 20 lks. wide, course N. 60° W. Ascend
steep N. E. slope
60.20 Top of spur brs. N. E. and S. W.
60.50 A farm house brs. S. 43° E. about 5 chs. dist.
63.60 A dry wash 10 lks. wide, course N. E.
65.35 Los Angeles and Tejon Pass Road N. 20° E. and S.
20° W. At this point I set off 10° 10' S. on decl.
Arc and at 12h 13' 43" p.m., l.m.t., observe the sun
on the meridian. The resulting lat. is 34° 39' which
is about the true lat.
65.00 Wire fence brs. N. 20° E. and S. 20° W. Enter cultivated
field
78.00 Top of spur brs. N. E. and S. W.
79.00 Head of small drain, course N. E. Ascend gradual N. E.
slope
80.42 Wire fence brs. N. & E.
80.45 Cor. of Secs. 32 and 33 S. bdy. T. 7 N. R. 14 W.
Land rolling and level. Soil second and third rate
Open scattering cottonwood and willow trees along creeks.
Formation granite.

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S. Bdy. T. 7 N., R. 14 W.
At the cor. of Secs. 32 and 33, S. Bdy. T. 7 N.,
R. 14 W., at 2 p.m., l.m.t., I set off 34° 39' N. on
lat. arc and 10° 9' S. on decl. arc and determine a
meridian with the solar.
Thence I run E. on a Random line bet. Secs. 4 and 33
40.49 1/4 sec. cor. brs. N. 17 lks. dist. which is a granite
stone 3x6x8 in. above ground, firmly set, marked and
witnessed. Set over cor. and continue line E.
80.54 Cor. of Secs. 3, 4, 33 and 34, brs. N. 24 lks. dist.
which is a granite stone 3x6x3 in. above ground, firmly
set and marked, also old post 3 in. sq. 1 ft. above ground
set with stone properly marked.
I return to the cor. of Secs. 4, 5, 32 and 33
Thence I run N. 89° 45' E. on a true line bet. Secs.
4 and 33
.06 Set iron U. S. For. Res. Bdy. Post No. 84, 30 in. in the
ground, raised mound of earth and stone 4 ft. base, 1 ft.
high around post, marked
No. 84 on S. side of cap
1905 on S. side of cap
Reserve in S. E., S. W. and N. W. quadrants, also
marked:
T. 7 N., S. 33 W. C. in N. E. quadrant
R. 14 W., S. 4 in S. E. quadrant
T. 6 N., S. 5 in S. W. quadrant
S. 32 in N. W. quadrant with 2 notches on W. and 4
notches on E. edges of rim.

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.22 Kern Riv. Power Co.'s Line brs. N. & S. $34^{\circ} 30'$ W.
Thence over gradual E. slope along wire fence
2.30 Drain, course N. Ascend
4.70 Top of low ridge brs. N. & S. Descend N. E. slope
9.50 A ravine 20 lks. wide, $\frac{1}{4}$ ft. deep, course N.
12.10 Low ridge brs. N. & S.
13.60 Ravine 20 lks. wide, 5 ft. deep, course N.
16.65 Spur brs. N. & S.
19.68 Descend gradual N. E. slope
20.75 Ravine 20 lks. wide, 4 ft. deep, course N. W. Ascend
29.26 Change to gradual N. E. slope
39.40 Wire fence brs. N. $71^{\circ} 30'$ W. and E.
Enter Palmdale road.
40.49 $\frac{1}{4}$ sec. cor. previously described. From this cor.
a house brs. S. 28° E.
Thence I run N. $89^{\circ} 39'$ E. along road, nearly level
land.
54.15 Set bdy. post No. 85, 30 in. in the ground, raised
mound of earth and stone 4 ft. base, 1 ft. high
around post, marked
No. 85 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants
From this post same house brs. S. $42^{\circ} 30'$ W.
54.16 Wire fence. Leave road from west to south 60° E.
Ascend gradual S. W. slope
66.50 Top of ridge brs. N. & S. Descend gradual S. E. slope
69.00 A small drain, course S. E.
72.00 Change to gradual S. E. slope
74.00 Change to gradual S. W. slope
80.48 Set bdy. post No. 86, 30 in. in the ground, raised
mound of earth and stone 4 ft. base, 1 ft. high around
post, marked
No. 86 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants, also marked
T. 7 N., S. 34° W. Q. in N. E. quadrant
R. 14 W., S. 3 in S. E. quadrant
T. 6 N., S. 4 in S. W. quadrant
S. 33 in N. W. quadrant with 3 notches on E. and
W. edges of rim
80.54 Cor. of Secs. 3, 4, 33 and 34
Land rolling and level. Soil second and third rate.

February 22, 1905.

February 23:

At the cor. of Secs. 3, 4, 33 and 34, S. Bdy. T. 7 N.,
R. 14 W., at 10 a.m., l.m.t., I set off $34^{\circ} 39'$ on
lat. arc and $9^{\circ} 52'$ S. on decl. arc and determine a
meridian with the solar

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40.86 Thence I run E. on a random line bet. Secs. 3 and 34
1/4 sec. cor. brs. N. 6 lks. dist. which is a cedar
post 3 in. sq., 1 ft. high, firmly set, marked and
witnessed. I mark a granite stone 16x10x8 in. set
12 in. in the ground W. of post, marked 1/4 on N. face
Set over qr. cor.
80.76 Thence I continue E.
Cor. of Secs. 2, 3, 34 and 35 brs. N. 5 lks. dist.
which is a granite stone 5x6x6 in. above ground, firm-
ly set, marked.
I dig pits 18x18x12 in. in each section, 5-1/2 ft.
dist., raised mound of earth 5 ft. base, 2-1/2 ft.
high N. of cor.
I return to the cor. of Secs. 3, 4, 33 and 34
Thence I run N. 89° 55' E. on a true line bet. Secs.
3 and 34, over gradual S. W. slope, along wire fence
Cor. wire fence E. and W. and S.
.06 Enter brush brs. N. W. and S. E.
21.25 Top of ridge brs. N. & S.
22.50 Small drain, course S.
23.80 Head of small drain, S. W.
27.00 Top of ridge brs. N. & S. Descend steep N. E. slope
28.00 Drain, course N. 150 ft. descent. Ascend steep W.
34.30 slope
38.50 Change to steep N. E. slope
40.86 1/4 sec. cor. previously described. Wire fence E. and
W. and S. from 1/4 sec. cor.
Thence I run N. 89° 56' E.
42.80 Change to gradual N. W. slope
47.10 Wire fence brs. N. 80° W. and S. 80° E.
61.00 Enter meadow brs. N. W. and S. E. Leave brush
61.30 Small drain, course N. W.
67.00 Enter marshy ground
69.19 Leave marshy ground brs. N. W. and S. E. Ascend
gradual S. W. slope
80.76 Cor. of Secs. 2, 3, 34 and 35.
Land mountainous and level
Soil second and third rate
Brush chemise, manzanita and liveoak
Formation granite

At the cor. to Secs. 2, 3, 34 and 35,
S. Bdy. T. 7 N., R. 14 W., I set off 9° 49' S. on
the decl. arc and at 12h 13' p.m., l.m.t., observe
the sun on the meridian. The resulting lat. is 34°
39' N. which is the correct lat.
Thence I run E. on a random line bet. Secs. 2 and 35
39.69 1/4 sec. cor. brs. N. 7 lks. which is a cedar post
2x3 in. sq. 8 in. above ground, firmly set, marked
and witnessed.

Copied from W. H. Thorn's survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey

79.50	Set over 1/4 sec. cor. and continue line E. Cor. of Secs. 35 and 36 brs. N. 8 lks. dist. which is a small mound of stone; dig in mound and find portion of old post. I re-established corner at same place as follows: Set granite stone 18x10x8 12 in. in the ground for cor. of Secs. 35 and 36 marked one notch on east and 5 notches on west; dig pits 24x24x12 in. N.E. and N.W. of corner, 5-1/2 ft. dist. Raised mound of earth 5 ft. base, 2-1/2 ft. high N. of cor. I return to the cor. of Secs. 2, 3, 34 and 35
.06	Thence I run N. 89° 54' E. on a true line bet. Secs. 2 and 35 over gradual S. W. slope along wire fence Set iron U. S. For. Res. Bdy. Post No. 87, 30 in. in the ground, raised mound of earth and stone 4 ft. base, 1 ft. high around post, marked No. 87 on S. side on cap 1905 on S. side of cap Reserve in S. E. and S. W. quadrants, also marked T. 7 N., S. 35 W. C. in N. E. quadrant R. 14 W., S. 2 in S. E. quadrant T. 6 N., S. 3 in S. W. quadrant S. 34 in N. W. quadrant with 2 notches on E. and 4 notches on W. edges of rim of cap
5.05	Small drain, course S.
12.70	Small drain, course S.
16.95	Small drain, course S. Ascend steep S. W. slope
21.10	Drain, course S. W.
22.50	Descend steep S. E. slope
28.70	Drain, course S. W. Ascend gradual S. W. slope
39.69	1/4 sec. cor. previously described. Thence I run N. 89° 53' E. over steep S. W. slope
49.00	Change to gradual S. W. slope
51.00	Enter brush brs. N. & S.
52.00	Top of ridge brs. N. & S. Descend
53.00	Drain, course S. Ascend
55.00	Top of spur brs. N. & S.
55.90	Drain, course S. W.
58.00	Top of ridge brs. N. & S. Descend steep E. slope
61.70	Drain, course N. E.
64.10	Drain, course S. 100 ft. descent, ascend steep W. slope
72.00	Change to gradual W. slope. Leave brush brs. N. & S.
75.00	Top of ridge brs. N. & S. 200 ft. ascent
79.50	Cor. of Secs. 35 and 36 previously described Land mountainous and rolling. Soil second and third rate. Brush liveoak and chenise.

February 23, 1905

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T. 6 N., R. 14 W.

February 24:

At the corner of secs. 35 and 36, south boundary
T. 7 N. R. 14 W., at 10 a.m., l.m.t., I set off 34.
39' N. on latitude arc and 9° 29' S. on decl. arc and
determine a meridian with the solar. Magnetic variation is
15° 12' E.

Thence I run

South on a random line between secs. 1 and 2.

40.00 Find no trace of 1/4 sec. corner

80.11 Cor. of secs. 1, 2, 11 and 12 bears E. 372 lks. dist.,
which is a granite stone 6x6x6 ins. above ground,
firmly set, marked and witnessed.

Thence I run

N. 0° 01' W. on true line bet. secs. 1 and 2, over
nearly level land, through brush.

3.81 A ravine, 30 lks. wide, 8 ft. deep, course S. W.

Ascend South.

10.00 A ravine, 30 lks. wide, 10 ft. deep, course S. W.

19.40 Wire fence E. and W.

22.60 Top of ridge brs. E. and W. Descend

26.85 Drain, course E., thence along gradual E. slope.

38.00 Change to nearly level land.

40.00 Set a granite stone 20x10x6 ins., 15 ins. in the ground,
for 1/4 sec. cor. marked 1/4 on W. face; dig pits
18x18x12 ins. N. and S. of cor., 3-1/2 ft. dist., raise
mound of earth and stone, 3-1/2 ft. base, 1-1/2 ft. high
W. of cor.

Note: This correction agrees with old fence line and
other improvements. From this point north there is no
evidence of old line.

45.50 Ascend steep broken S. E. slope, through brush.

71.00 Top of ridge brs. NE. and S.W., thence along nearly
level land.

74.85 Leave brush, brs. E. and W. Enter prairie.

80.05 Set iron U. S. For. Res. Bdy. Post No. 88, 30 ins. in
the ground; raise mound of earth 4 ft. base, 1 ft. high,
around post, marked:

No. 88 on S. side of cap

1905 on S. side of cap

Reserve in S. W. quadrant, also marked:

C. C. on S. side of cap on rim

W. C. in N. E. quadrant

T. 6 N., S. 1, in S. E. quadrant

R. 14 W., S. 2, in S. W. quadrant, with 1 notch on
E. and 5 notches on W. edges of rim

80.11 Intersect N. Bdy. of Towp. 370 lks. E. of cor. of secs.
35 and 36 heretofore described. (Allowing 2 lks. for
converging). Set a granite stone 16x8x4 ins., 10 ins.
in the ground, for C. C. to secs. 1 and 2, marked with
1 notch on E. and 5 notches on W. face; C. C. on S. face;
dig pits 18x18x12 ins., S. E. and S. W. of cor. 5-1/2 ft.
dist.

Land mountainous and level.

Soil, 3rd and 4th rate.

Brush, chemise and manzanita.

Formation, granite.

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At the cor. of secs. 1, 2, 11 and 12, I set off 9° 27' S. on decl. arc and at 12h. 13' 26" p.m., l.m.t., observe the sun on the meridian. The resulting latitude is 34° 38' N.
Thence I run
40.23 South on a random line bet. secs. 11 and 12.
1/4 sec. cor. brs. W. 17 lks. dist., which is a granite stone 4x6x8 ins. above ground, firmly set, marked and witnessed.
78.66 Set over cor. and continue line south.
Intersect cor. of secs. 11 and 14, which is a granite stone 6x6x6 ins. above ground, firmly set, marked and witnessed.
80.05 Intersect cor. of secs. 12 and 13, a tapering granite stone, 6 ins. above ground, firmly set, marked and witnessed.
I return to the cor. of secs. 1, 2, 11 and 12.
Thence I run
S. 0° 15' W., on a true line bet. secs. 11 and 12, over nearly level land through sage brush.
4.25 A ravine 30 lks. wide, 15 ft. deep, course S. 70° E.
7.60 Road from Elizabeth Lake and Palmdale brs. E. and W.
7.79 Set iron U. S. For. Res. Bdy. Post No. 89, 30 ins. in the ground, raise mound of earth and stone, 4 ft. base, 1 ft. high, around post, marked:
No. 89 on S. side of cap
1905 on S. side of cap
Reserve in S. W. and N. W. quadrants
14.50 Leave level land. Ascend gradual W. E. slope
17.50 Change to E. slope
24.50 Private road brs. N. W. and S. E. Change to S. E. slope
28.50 Drain, course E.
33.08 Drain, course E. Ascend gradual W. E. slope
40.23 1/4 sec. cor. previously described. A wire fence running E. and W. from cor.
Thence I run
South through field.
45.50 Top of spur brs. N. E. and S. W.
49.00 Change to E. slope.
52.90 Leave field brs. N. E. and S. W.
57.00 Ascend steep N. slope through timber and brush, brs. N. E. and S. W.
60.00 Leave brush, enter prairie N. E. and S. W.
63.00 Top of ridge brs. E. and W.
65.00 Change to steep S. E. slope.
67.00 Head of drain, course S. E.
68.50 Ascend N. E. slope.
78.10 Drain, course N. E. Enter brush.
78.66 Cor. of secs. 11 and 14, previously described
80.05 Cor. of secs. 12 and 13, previously described
Land level and rolling
Soil, 2nd and 3rd rate
Timber, oak; live oak brush

At the cor. of secs. 12 and 13, T. 6 N., R. 14 W., at 4.00 P. M., l.m.t., I set off 34° 37' N. on lat. arc, and 9° 23' S. on decl. arc, and determine a meridian with the

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solar. Quarter section and section corner being in sight, I turn off on instrument S. 89° 54' E.
Thence I run
Bet. secs. 12 and 13 on a true line over gradual E. slope, through brush, along wire fence.
.06 Set iron U. S. For. Res. Bdy. Post No. 90, 30 ins. in the ground; raise mound of earth and stone 4 ft. base, 1 ft. high, around post, marked:
No. 90 on S. side of cap
1905 on S. side of cap
Reserve in S. E., S. W. and N. W. quadrants; also marked
T. 6 N. S. 12 W. C. in N. E. quadrant
R. 14 W. S. 13 in S. E. quadrant, with 1 notch on E. and 4 notches on S. edges of rim
3.20 Small drain course N. E., thence over nearly level land
9.10 Same drain, S. E.; leave brush N. W. and S. E.
19.50 Wire fence N. and S. Enter cultivated land.
36.92 S. W. cor. of orchard.
40.46 S. E. cor. of orchard.
40.82 Intersect 1/4 sec. cor. which is a granite stone 2x5x5 ins. above ground, firmly set, marked and witnessed.
From 1/4 sec. cor. a farm house brs. N. 40° W. about 5.00 chs. Thence over level meadow.
81.68 Intersect the cor. of secs. 7, 12, 13 and 18, which is a granite stone 4x4x8 ins. above ground, firmly set, marked and witnessed.
Land, level and rolling.
Soil, 2nd and 3rd rate.
- - - - -
36.33 East on a random line bet. secs. 7 and 18.
1/4 sec. cor. brs. N. 207 lks., which is a granite stone 4x5x5 ins. above ground, firmly set, marked and witnessed.
76.33 Set over cor. and continue line East.
Cor. of secs. 7, 8, 17 and 18 brs. N. 212 lks., which is a granite stone 6x6x6 ins. above ground, firmly set, marked and witnessed.
I return to the cor. of secs. 7, 12, 13 and 18, West Bdy. T. 6 N. R. 13 W.
Thence I run
N. 86° 45' E. on a true line bet. secs. 7 and 18, over level meadow.
.06 Set iron U. S. For. Res. Bdy. Post No. 91, 30 ins. in the ground; raise mound of stone and earth 4 ft. base, 1 ft. high, around post, marked:
No. 91 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants, also marked:
T. 6 N. S. 7 W. C. in N. E. quadrant
R. 13 W. S. 18 in S. E. quadrant
R. 14 W. S. 13 in S. W. quadrant
S. 12 in N. W. quadrant, with 2 notches on N. and 4 notches on S. edges of rim of cap
14.00 A wash (dry) 10 lks. wide, course S. E.
36.33 1/4 sec. cor. previously described.
Thence I run

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N. 86° 58' E.
53.00 Leave valley, ascend gradual N. W. slope
57.00 Change to N. E. slope
63.00 Enter valley, brs. N. 60° W. and S. 60° E.
76.33 Cor. of secs. 7, 8, 17 and 18 previously described, under
wire fence brs. N. and S.
Land, level and gently rolling.
Soil, 2nd and 3rd rate.

February 24, 1905.

February 25:

At the cor. of secs. 7, 8, 17 and 18, T. 6 N. R. 13 W.,
at 9 a.m., l.m.t., I set off 34° 37' N. on lat. arc and
9° 08' S. on decl. arc, and determine a meridian with
the solar.

From this cor. St. Anthony Ranch house brs. S. 1° 15' E.
about one-half mile.

Thence I run

40.24 East on a random line bet. secs. 8 and 17.
1/4 sec. cor. brs. S. 9 lks. dist., which is a redwood
post 4 ins. sq., 18 ins. above ground, firmly set,
marked and witnessed.

80.41 Set over 1/4 cor. and continue line East.
Cor. of secs. 8, 9, 16 and 17 brs. S. 6 lks. dist., which
is a post 3 ins. sq., 6 ins. above ground, firmly set,
marked and witnessed.

I return to the cor. of secs. 7, 8, 17 and 18

Thence I run

1.57 S. 89° 52' E. on a true line bet. secs. 8 and 17, over
16.44 level land in pasture.

A ravine, 50 lks. wide, 15 ft. deep, course S. 60° E.
Wire fence brs. N. 66° 30' W. and S. 66° 30' E. Enter
Elizabeth Lake and Palmdale Wagon road.

17.95 Set iron U. S. For. Res. Bdy. Post No. 92, 30 ins. in the
ground, raise mound of earth and stone 4 ft. base, 1 ft.
high, around post, marked:

No. 92 on S. side of cap

1905 on S. side of cap

Reserve in S. E. and S. W. quadrants

Wire fence brs. N. 66° 30' W. and S. 66° 30' E.

Leave road.

20.23 Wire fence brs. N. and S.

25.20 Ravine 30 lks. wide, 10 ft. deep, course S.

30.20 Ascend steep S. W. slope.

36.00 Top of hill brs. N. and S. Descend E. slope.

39.00 Foot of 100 foot descent brs. N. and S.

40.24 1/4 sec. cor. previously described.

Thence I run

60.40 S. 89° 55' E. over nearly level land, along wire fence.

61.50 Cross-wire fence brs. N. and S.

67.75 Change to gradual S. E. slope.

74.00 Small drain, course S.

78.50 Drain, course S. W. Ascend steep S. W. slope.

80.35 Top of ridge brs. N. and S. Descend steep E. slope.

Set iron U. S. For. Res. Bdy. Post No. 93, 30 ins. in the
ground; raise mound of earth 4 ft. base, 1 ft. high,
around post, marked:

No. 93 on S. side of cap

1905 on S. side of cap

Reserve in S. E. and S. W. quadrants, also marked

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T. 6 N. S 9 W. C. in N. E. quadrant
R. 13 W. S 16 in S. E. quadrant
S 17 in S. W. quadrant
S 8 in N. W. quadrant, with 4
notches on S. and E. edges of rim.
30.41 Cor. of secs. 8, 9, 16 and 17 previously described.
Land, rolling and level.
Soil, 3rd rate.

40.00 East on a random line bet. secs. 9 and 16.
1/4 sec. cor. lying on top of ground.
Continue line east.
50.30 Cor. of secs. 9, 19, 15 and 16 brs. S. 13 lks. dist.,
which is marked with a small mound of stone. I dig
in mound and find a portion of charred post. Re-
establish cor. at same point as follows. Set a
quartzite rock 20x8x8 ins., 15 ins. in ground for
cor. of secs. 9, 10, 15 and 16, marked 3 notches on E.
and 4 notches in S. faces; dig pits 18x18x12 ins. in
each section, 5-1/2 ft. dist., raise mound of earth
5 ft. base, 2-1/2 ft. high N. of cor.
I return to the cor. of secs. 8, 9, 16 and 17.
Thence I run
S. 89° 54' E. on a true line bet. secs. 9 and 16, along
wire fence.
.55 Small drain, course S.
2.55 Change to gradual E. slope.
23.50 Drain, course S. Ascend.
28.50 Top of ridge brs. N.W. and S.E. Descend E. slope.
29.46 Wire fence brs. W. and N. 60° E.
33.45 Drain, course S. E.
35.50 Descend E. slope.
37.25 Drain, course S. 20° W. Ascend gradual S. W. slope.
40.15 Set a granite stone 22x11x7 ins., 16 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on E. face; dig
pits 18x18x12 ins. E. and W. of cor., 3-1/2 ft. dist.;
raise mound of earth, 3-1/2 ft. base 1-1/2 ft. high
N. of cor.
48.00 Change to S. E. slope.
50.00 Change to steep S. W. slope.
54.00 Top of ridge brs. N. and S. At this point I set off
9° 05' S. on decl. arc and at 12h. 13' 17" p.m., l.m.t.,
observe the sun on the meridian. The resulting lati-
tude is 34° 37' N., which is almost the correct latitude.
54.25 Descend steep S. E. slope.
56.25 Drain, course S., 50 ft. descent. Ascend.
59.60 Top of spur brs. N. and S., 50 ft. ascent. Descend.
63.00 Drain, course S. W.
65.09 Top of spur brs. N. E. and S. W.
68.50 Drain, course S. 50 ft. descent.
70.00 Top of spur brs. N. and S.
76.00 Descend steep E. slope.
80.30 Cor. of secs. 9, 10, 15 and 16 previously described.
Land, mountainous.
Soil, 3rd and 4th rate.
Formation, granite.

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East
40.00 East on a random line bet. secs. 10 and 15.
Find no trace of 1/4 sec. cor. Set temporary cor. Con-
tinue line East.
79.94 Cor. of secs. 10, 11, 14 and 15 brs. S. 119 lks. dist.,
which is a granite stone 6x6x6 ins. above ground, firmly
set, marked and witnessed by small mound of stone; dig
pits 18x18x12 ins. in each section 5-1/2 ft. dist.;
raise mound of earth and stone 5-1/2 ft. base, 2-1/2 ft.
high, N. of cor.
I return to the cor. of secs. 9, 10, 15 and 16.
Thence I run
S. 89° 09' E. on a true line bet. secs. 10 and 15, over
steep E. slope, through scattering sage brush.
.06 Set iron U. S. For. Res. Bdy. Post No. 94, 30 ins. in
the ground; raise mound of earth, 4 ft. base, 1 ft. high
around post, marked:
No. 94 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants.
Also marked:
T. 6 N. S 10 W. C. in N. E. quadrant
R. 13 W. S 15 in S. E. quadrant
S 16 in S. W. quadrant
S 9 in N. W. quadrant, with 3
notches on E. and 4 notches on S. edges of rim
of cap.
3.50 Drain, course S. E.
5.00 Top of spur brs. N. and S.
6.10 Drain, course S., ascend steep W. slope.
8.45 Top of spur brs. N. and S.
14.00 Drain, course S. W. Ascend gradual W. slope.
29.00 Small drain, course S. W.
31.00 Change to gradual S. slope.
35.00 Saddle divide brs. N. W. and S. E.
39.97 Set a granite stone 22x11x7 ins., 16 ins. in the ground
for 1/4 sec. cor., marked 1/4 on N. face; dig pits 18x18x12
ins., E. and W. of cor. 3-1/2 ft. dist.; raise mound of
earth 3-1/2 ft. base, 1-1/2 ft. high, N. of cor.
50.00 Change to N. E. slope. Enter Yucca palms and scattering
red cedar.
68.50 Change to steep E. slope of mountain.
75.00 Drain, S. E., 400 ft. descent. Ascend steep S. W. slope.
75.95 Wire fence brs. N. W. and S. E.
78.00 Top of ridge brs. N. and S., descend steep S. E. slope.
79.94 Cor. of secs. 10, 11, 14 and 15, previously described.
Land, mountainous.
Soil, 3rd and 4th rate.
Timber, yucca palms and scattering red cedar.
February 25, 1905.

February 25: In sec. 11, T. 6 N. R. 13 W., at 4.00 p.m.,
l.m.t., I set off 34° 38' N. on lat. arc and 9° 00' S. on
decl. arc and determine a meridian with the solar and
mark the line thus determined by a tack driven in a wooden

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plug set 5.00 chs. N. of my station. At the same station at 8h. 58' p.m., I observe Polaris at western elongation and mark the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs. N. of my station.

February 26, at 8 a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 27'$ to the East and mark the meridian thus determined. The meridian thus determined falls at the exact point established with the solar. I test the solar apparatus every hour during the day and find it in good adjustment.

February 26, 1905.

February 27:

At the cor. of Secs. 10, 11, 14 and 15, T. 6 N. R. 13 W., at 9.00 a.m., l.m.t., I set off $34^{\circ} 37'$ N. on lat. arc and $8^{\circ} 22'$ S. on the decl. arc and determine a meridian with the solar.

Thence I run

East on a random line bet. secs. 11 and 14.

40.00 Could not find $1/4$ sec. cor. Set temporary cor. and continue line East.

80.22 Cor. of secs. 11, 12, 13 and 14 brs. 26 lks. dist., which is a cedar post 4 ins. sq., 2 ft. high above mound of stone firmly set and marked; I dig pits $18 \times 18 \times 12$ ins. in each section $5-1/2$ ft. dist., raise mound of earth 5 ft. base $2-1/2$ ft high W. of cor. I set a granite stone $22 \times 12 \times 8$ ins., 16 ins. in mound of stone W. of old post, enlarge mound of stone to 4 ft. base, 16 ins. high around cor., marked with 1 notch on E. and 4 notches on S. faces.

I return to the cor. of secs. 10, 11, 14 and 15,

Thence I run

.06 S. $89^{\circ} 49'$ E. on a true line bet. secs. 11 and 14 over steep E. slope, through scattering brush and yucca palms. Set iron U. S. For. Res. Bdy. Post No. 95, 30 ins. in the ground; raise mound of earth and stone 4 ft. base, 1 ft. high around post, marked:

No. 95 on S. side of cap

1905 on S. side of cap

Reserve in S. E. and S. W. quadrants, also marked:

T. 6 N. S 11 W. C. in N. E. quadrant

R. 13 W. S 14 in S. E. quadrant

S 15 in S. W. quadrant

S 10 in N. W. quadrant, with 2

notches on E. and 4 notches on S. edges of rim.

4.15 Wire fence brs. N. W. and S. E.

16.50 Change to gradual E. slope.

27.40 (?) Wire fence brs. N. 20° E. and S. 20° W.

27.26 (?) Set iron U. S. For. Res. Bdy. Post No. 96, 30 ins. in the ground; raise mound of earth and stone 4 ft. base, 1 ft. high around post, marked:

No. 96 on S. side of cap

1905 on S. side of cap

Reserve in S. E. and S. W. quadrants

27.50 Road brs. N. 20° E. and S. 20° W.

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27.75 Dry wash, 10 lks. wide, course N. 20° E., foot of
300 foot descent.
34.50 Ascend gradual N. W. slope.
40.11 Set a granite stone 17x5x4 ins., 12 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18x18x12
ins., E. and W. of cor., $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N.
of cor.
53.00 Change to gradual N. E. slope.
57.15 Drain, course N. E. Enter scattering palms and cedar brush.
67.50 Change to nearly level land.
72.00 Change to gradual N. W. slope.
77.74 Wire fence brs. N. and S.
80.22 Cor. to secs. 11, 12, 13 and 14 previously described.
Land mountainous.
Soil, sandy, 3rd rate.
Timber, scattering cedar and yucca palms.
Formation, granite.

East on a random line bet. secs. 12 and 13.
40.00 $\frac{1}{4}$ sec. cor. has been destroyed by plowing; set temporary
cor.; continue line East.
79.70 Intersect E. Bdy. of Twp. at a point from which cor. of
secs. 7, 12, 13 and 18 brs. S. 25 lks., which is a cedar
post, 3 ins. sq., 2 ft. high, firmly set and marked.
I set a granite stone 14x11x4 ins., 9 ins. in the ground
by the side of old cor., marked 2 notches on N. and 4
notches on S. faces; dig pits 18x18x12 ins., in each
section, $5\frac{1}{2}$ ft. dist.; raise mound of earth 4 ft. base,
 $2\frac{1}{2}$ ft. high W. of cor.
I return to the cor. of secs. 11, 12, 13 and 14.
Thence I run
S. 89° 49' E. on a true line bet. secs. 12 and 13.
over gradual N. E. slope, through cedar and yucca palms.
.06 Set iron U. S. Forest Reserve Bdy. Post No. 97, 30 ins. in
the ground; raise mound of earth 4 ft. base, 1 ft. high
around post, marked:
No. 97 on S. side of cap
1905 on S. side of cap
Reserve in S. E. and S. W. quadrants, also marked:
T. 6 N. S. 12 W. C. in N. E. quadrant
R. 13 W. S. 13 in S. E. quadrant
S. 14 in S. W. quadrant
S. 11 in N. W. quadrant, with 1
notch on E. and 4 notches on S. edges of rim of cap
8.85 Wire fence brs. N. and S. Enter field.
12.96 Farm house brs. N. 147 lks. Thence over nearly level
land.
32.25 Enter orchard brs. N. and S.
39.37 Wire fence brs. N. and S. Leave orchard, thence through
old abandoned field.
39.85 Set a granite stone 17x8x5 ins., 12 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18x18x12
inches East and West of corner $3\frac{1}{2}$ feet distant;

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54.38
79.42
79.70

raise mound of earth 3-1/2 ft. base, 1-1/2 ft. high
N. of cor.
Farm road bds. N. W. and S. E.
Wire fence bds. N. & S.
Cor. of Sees. 7, 12, 13 and 18 previously described.
Land rolling and level.
Soil sandy, third rate.
Timber cedar and palms.

February 27, 1905

March 1:

40.00

At the cor. of Sees. 7, 12, 13 and 18, E. Bdy. T. 6 N.,
R. 13 W., at 9 a.m., l.m.t., I set off 34° 37' N. on
lat. arc and 7° 37' S. on decl. arc and determine a
meridian with the solar. Magnetic variation 14° 50' E.
Thence I run S. on a random line bet. Sees. 13 and 18
Cor. destroyed by plowing. Set temp. cor. Continue
line S.

80.00

Find no trace of old cor. of Sees. 13, 18, 19 and 24.
Set temp. cor. and continue line S. bet. Sees. 19 and 24
1/4 sec. cor. bds. E. 119 lks. dist. which is a cedar
post 2 in. sq., 2 ft. high in mound of stone marked 1/4
S. on W. face

40.15

I set a granite stone 24x10x8 in. 18 in. in the ground
by the side of old 1/4 cor. marked 1/4 on W. face.
Dig pits 18x18x12 in. N. and S. of cor. 3-1/2 ft. dist.
Raise mound of earth 3-1/2 ft. base, 1-1/2 ft. high W.
of cor. I return to the cor. of Sees. 7, 12, 13 and 18.
Thence I run S. 0° 34' E. on a true line bet. Sees. 13
and 18 along wire fence.

.06

Set iron U. S. Forest Reserve Bdy. Post No. 98, 30 in.
in the ground, raise mound of earth 4 ft. base, 1 ft.
high around post, marked

No. 98 on S. side of cap

1905 on S. side of cap

RESERVE in S. W. quadrant, also marked

T. 6 N., S. 7 W. C. in E. E. quadrant

R. 12 W., S. 18 in S. E. quadrant

R. 13 W., S. 13 in S. W. quadrant

S. 12 in N. W. quadrant with 2 notches on N. and

4 notches on S. edges of rim of cap.

11.75

A house bds. S. 32° 25' W.

39.90

Same house bds. N. 43° 15' W.

40.05

Set a granite stone 11x9x5 in. 8 in. in the ground for
1/4 sec. cor. marked 1/4 on W. face. I also set a
cedar post 3 in. sq., 3 ft. long, 18 in. in the ground
W. of stone, marked 1/4 S. on W. face. Dig pits 18x18x12
in. N. and S. of cor. 3-1/2 ft. dist. Raise mound of
earth 3-1/2 ft. base, 1-1/2 ft. high W. of cor.

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Jan. 11, 1906, furnished by Geological Survey

40.25 Wire fence brs. E. and W. Enter Cedar brush.
55.00 Ascend steep N. slope.
65.00 Top of ridge brs. E. and W., 150 ft. above 1/4 Sec. Cor.
66.75 Drain, course E.
68.50 Drain, course E.
71.00 Ascend gradual N. E. slope.
80.00 Top of ridge brs. E. and W.
80.10 Set a granite stone 18x11x9 ins., 12 ins. in the
ground for cor. of Secs. 13, 18, 19 and 24, marked
3 notches on N. and S. faces; dig pits 18x18x12 ins.
in each section, 5-1/2 ft. dist.; raise mound of
earth and stone 5 ft. base, 2-1/2 ft. high W. of cor.
Land, level and mountainous.
Soil, 3rd and 4th rate.
Timber, cedar brush, yucca palms and sage brush.

.06 S. 0°34' E. on a true line bet. secs. 19 and 24,
over gradual S. E. slope, through sage brush.
Set iron U. S. For. Res. Bdy. Post No. 99, 30 ins. in
the ground, raise a mound of earth and stone 4 ft.
base, 1 ft. high around post, marked:
No. 99 on S. side of cap
1905 on S. side of cap
Reserve in S.W. and N.W. quadrants, also marked:
T. 6 N. S. 18 W. C. in N.E. quadrant
R. 12 W. S. 19 in S.E. quadrant
R. 13 W. S. 24 in S.W. quadrant
S. 13 in N.W. quadrant, with 3
notches on N. and S. edges of rim
1.64 Wire fence brs. east and west.
8.80 Drain, course E.
26.00 Change to gradual S.W. slope.
38.50 Small drain, course S.E., thence over gradual S.E.
slope.
40.05 1/4 sec. cor. heretofore described.
Thence I run
South on a random line.
80.81 Cor. of secs. 19, 24, 25 and 30 brs. E. 93 lks. dist.,
which is a granite stone 14x10x8 ins., above ground,
firmly set and marked, witnessed by mound of stone
3 ft. base, 1 ft. high, W. of cor.; dig pits 18x18x12
ins. in each section, 5-1/2 ft. dist., and enlarge mound
of earth and stone 5 ft. base, 2-1/2 ft. high, W. of cor.
Thence I return to the 1/4 sec. cor. bet. secs. 19 and 24.
Thence I run
S. 1°15' E. on a true line, counting from sec. corner.
42.00 Change to gradual N. slope through scrub cedar.
49.00 Spur brs. N.E. and S.W.
52.50 Drain, course N.E.
55.00 Top of ridge brs. E. and W.
60.00 Descend steep S. slope.
66.90 Elizabeth Lake and Palmdale road brs. N. 60° W. and
S. 60° E.
67.25 Dry wash, 30 lks. wide, course N. 60° E., foot of
300 foot descent, thence through valley.
68.00 Set iron U. S. For. Res. Bdy. Post No. 100, 30 ins. in
the ground; raise mound of earth and stone 4 ft. base,
1 ft. high around post, marked:
No. 100 on S. side of cap
1905 on S. side of cap
Reserve on S.W. and N.W. quadrants.

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Jan. 11, 1906, furnished by Geological Survey

80.81 Cor. of secs. 19, 24, 25 and 30, previously described.
Land, mountainous and level.
Soil, sandy, 3rd and 4th rate.
Timber, scrub cedar, yucca palms and sage brush.
Formation, granite.

South on a random line bet. secs. 25 and 30.

40.20 1/4 sec. cor. brs. E. 289 lks., which is a cedar post
2 ins. sq., 18 ins. high, firmly set and marked.
I set a granite stone 21x11x5 ins., 15 ins. in the
ground, with old cor., marked 1/4 on W. face; dig pits
18x18x12 ins. N. and S. of cor., 3-1/2 ft. dist.;
raise mound of earth 3-1/2 ft. base, 1-1/2 ft. high
W. of corner.
Set over corner.
At 12h. 12' p.m., l.m.t., I set off 7°34' S. on decl.
arc and observe the sun on the meridian. The resulting
latitude is 34°35' N. which is about the correct
latitude.

80.00 Thence I continue line south.
Cor. of secs. 25, 30, 31 and 36 brs. E. 25 lks. dist.,
which is a granite stone 4x4x4 ins. above ground,
firmly set, marked and witnessed. I refresh pits, en-
large mound to 5 ft. base, 2-1/2 ft. high, W. of cor.
I return to the cor. of secs. 19, 24, 25 and 30.
Thence I run
S. 4°08' E. on a true line bet. secs. 25 and 30, over
level land.

1.00 Ascend steep N. slope through cedar brush.
5.50 Drain, course N.E.
9.00 Change to gradual N. slope.
13.50 Drain, course N.E.
17.00 Leave cedar brush brs. E. and W., thence over level
land, through old abandoned field.
39.50 Dim road brs. E. and W.
40.20 1/4 sec. cor. previously described.

Thence I run
S. 0°21' E. along wire fence.
80.00 Cor. of Secs. 25, 30, 31 and 36 previously described.
Land, level.
Soil, 2nd and 3rd rate.
Cedar and sage brush.

South on a random line bet. secs. 31 and 36.

39.78 1/4 sec. cor. brs. E. 42 lks. dist., which is a
cedar post 2 ins. sq., 1 ft. high, firmly set
and marked.
I set a granite stone 24x12x10 ins. 18 ins. in
the ground, W. of old post, marked 1/4 on W. face;
dig pits 18x18x12 ins. N. and S. of cor., 3-1/2 ft.
dist.; raise mound of earth 3-1/2 ft. base, 1-1/2
ft. high W. of cor.
Set over corner and continue line south.

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Jan. 11, 1906, furnished by Geological Survey

79.81 Intersect First Standard Parallel North 15 lks. W. of
standard cor. of T. 6 N., Rs. 12 and 13 W., which is a
granite stone 24x18x6 ins. in mound of stone, firmly
set, marked and witnessed.
I return to the cor. of secs. 25, 30, 31 and 36.
Thence I run
S. 0°36' E. on a true line bet. secs. 31 and 36, over
nearly level land.
.06 Set iron U. S. For. Res. Bdy. Post No. 101, 30 ins. in
the ground; raise mound of earth 4 ft. base, 1 ft.
high around post, marked:
No. 101 on S. side of cap
1905 on S. side of cap
Reserve in S.W. and N.W. quadrants, also marked:
T. 6 N. S. 30 W.C. in N.E. quadrant
R.12 W. S. 31 in S.E. quadrant
R.13 W. S. 36 in S.W. quadrant
S.25 in N.W. quadrant, with 5
notches on N. and 1 notch on S. edges of rim
of cap.
1.24 Road brs. N.E. and S.W.
24.00 Leave level land, ascend N.W. slope.
33.50 Top of ridge brs. E. and W. Descend S.W. slope.
39.78 1/4 sec. cor. previously described.
Thence I run
S. 0°13' E.
43.50 Ascend N.E. slope through brush.
50.50 Drain, course N.E.
55.00 Top of ridge brs. N.W. and S.E.
60.25 Drain, course N.W. Ascend steep N.E. slope through
dense brush.
68.00 Top of ridge brs. N.W. and S.E.
72.00 Small drain, course N.W.
77.00 Top of ridge brs. N.W. and S.E. Descend gradual
S.W. slope.
79.81 Standard cor. of T.6 N. Rs.12 and 13 W. previously
described.
Land, level and mountainous.
Soil, 3rd rate.
Timber, cedar and oak brush.
Formation, granite.

March 1, 1905.

March 2:

At the standard cor. of T.6 N. Rs.12 and 13 W., at
10.00 a.m., l.m.t., I set off 34°35' N. on the lat.
arc and 7°14' S. on the decl. arc.

Thence I run

East on a random line along south bdy. sec. 31.

40.48 Intersect standard 1/4 sec. cor., which is a cedar
post 2 ins. sq., 14 ins. above ground, firmly set
and marked.

I set a mica schist 24x10x6 ins., 18 ins. in the ground
by the side of the old post, marked S.C. 1/4 on N. face;
dig pits 18x18x12 ins. E. and W. of cor. 3-1/2 ft. dist.;
raise mound of earth and stone 3-1/2 ft. base, 1-1/2 ft.
high, N. of cor.
Continue line East.

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69.62 Find no trace of C.C. T. 5 N. Rs. 12 and 13 W.
Continue line East.
80.38 Standard cor. secs. 31 and 32 brs. S. 10 lks. dist.,
which is a cedar post 3 ins. sq., two ft. in length,
set in a mound of stone properly marked.
I return to the standard cor. of T. 6 N. Rs. 12 and
13 W.
Thence I run
East on a true line along south bdy. sec. 31.
Ascend W. slope through oak and cedar brush.
.06 Set iron U. S. For. Res. Bdy. Post No. 102, 1 ft. in
the ground; raise mound of stone 5-1/2 ft. base,
2-1/2 ft. high around post, marked:
No. 102 on S. side of cap
1905 on S. side of cap
Reserve in S.E., S.W. and N.W. quadrants
Also marked:
S.C. on North side of cap
T. 6 N. R. 12 W. S. 31 in N.E. quadrant
R. 13 W. S. 36 in N.W. quadrant
with 6 notches on N., E., and W. edges of rim
of cap
7.50 Top of ridge brs. N.W. and S.E., thence over S.E.
slope.
12.00 Drain, course N.E.
16.38 Top of ridge brs. N. and S. Descend E. slope.
18.80 Drain, course N.E.
20.20 Descend steep N.E. slope.
26.65 Drain, course N. 20° E., 100 ft. descent. Ascend
steep W. slope.
30.25 Top of ridge brs. N. and S. Descend E. slope.
32.50 Drain, course N. Ascend through thick cedar.
35.00 Top of ridge brs. N. and S. Descend.
38.00 Drain, course N.E.
40.48 S.C. 1/4 sec. cor. previously described.
Thence I run
S. 89°51' E.
42.00 Same drain, course S.E.
45.40 Top of ridge brs. N.W. and S.E.
46.53 Descend steep N.E. slope.
52.00 Change to E. slope.
58.50 Drain, course N.E. Change to N. slope.
59.50 Small drain, course N. Ascend gradual N.W. slope.
64.40 Change to N.E. slope.
68.28 Point for C.C. T. 5 N., Rs. 12 and 13 W.
Set a mica schist 36x36x8 ins. 1 ft. in the ground for
C.C. to T.5 N., Rs. 12 and 13 W.; raise mound of stone
4 ft. base, 1-1/2 ft. high around stone; dig pits
24x24x12 ins. E. and W. of same, 3 ft. dist., and
South 8 ft. dist.; raise mound of earth and stone 3 ft.
base, 2-1/2 ft. high south of cor.
Land, mountainous.
Soil, 2nd and 3rd rate.
Timber, live oak and cedar brush.

West Boundary Township 5 North, Range 12 West.

At the C.C. to T. 5 N. Rs. 12 and 13 W., at 2 P.M.,
l.m.t., I set off 34°35' N. on lat. arc and 7°10' S.
on decl. arc and determine a meridian with the solar.

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Jan. 11, 1906, furnished by Geological Survey

Thence I run
South on a random line bet. secs. 1 and 6.
65.20 Find no trace of 1/4 sec. cor. Set temporary and
continue line south.
107.85 Cor. of secs. 1, 6, 7 and 12 hrs. E. 167 lks. dist.,
which is an oak post badly decayed in mound of stone.
I reestablish cor. at same point as follows:
Set a granite stone 18x11x6 ins. 12 ins. in the ground,
for cor. of secs. 1, 6, 7 and 12, marked one notch on
N. and 5 notches on south; dig pits in each section,
5-1/2 ft. dist.; raise mound of earth and stone 5 ft.
base, 2-1/2 ft. high W. of cor.
I return to the C.O. T. 5 N. Rs. 12 and 13 W.
Thence I run
S. 0°53' E. on a true line bet. secs. 1 and 6.
.35 Set iron U. S. For. Res. Bdy. Post No. 103, 30 ins. in
the ground; raise mound of earth and stone 4 ft. base,
1 ft. high around post, marked:
No. 103 on S. side of cap
1905 on S. side of cap
Reserve in S.W. quadrant, also marked:
W.O. in N.E. quadrant
T. 5 N. R. 12 W. S. 6 in S.E. quadrant
R. 13 W. S. 1 in S.W. quadrant
C.O. on south of cap on rim, with 6 notches
on E., W., and S. edges of rim of cap
Ascend N.E. slope.
2.81 Top of spur hrs. E. and W.
4.50 Side hill drain, course N.E.
11.30 Top of spur hrs. E. and W. Descend steep N.E. slope.
23.00 Drain, course N.E., foot of 100 foot descent.
Ascend steep north slope through scattering brush.
30.60 Top of ridge hrs. E. and W., 150 ft. ascent.
31.67 Descend steep S.E. slope.
36.00 Drain, course S.E.
38.85 Top of spur hrs. E. and W. Descend S.E. slope.
43.00 Foot of descent hrs. N.E. and S.W.
46.00 Drain, course N.E. Ascend N.E. slope.
61.97 Top of ridge hrs. N.E. and S.W. Descend gradual
S.E. slope.
66.67 Set a granite stone 26x9x8 ins., 18 ins. in the
ground for 1/4 sec. cor., marked 1/4 on W. face; dig
pits 18x18x12 ins. N. and S. of cor., 3-1/2 ft. dist.;
raise mound of earth and stone 3-1/2 ft. base, 1-1/2
ft. high W. of cor.
70.50 Small drain, course N.E.
73.00 Wood road hrs. N. 20° E. and S. 20° W.
87.00 Top of spur hrs. E. and W. Descend S. slope.
95.00 Same road hrs. N.W. and S. 20° E. Ascend gradual
N.E. slope.
107.85 Cor. of secs. 1, 6, 7 and 12 previously described.
Land, mountainous.
Soil 3rd and 4th rate.
Timber, live oak, chemise and manzanita brush.
Formation, granite.

March 2, 1905.

Copied from W.H.Thorn's Survey of Nov.28,1904
Jan. 11, 1906, furnished by Geological Survey

March 6:

At the cor. of secs. 2, 3, 10 and 11, at 8 a.m.,
l.m.t., I set off $34^{\circ}34'$ N. on the lat. arc and
 $5^{\circ}43'$ S. on the decl. arc and determine a meridian
with the solar.

Thence I run

West on a random line bet. secs. 3 and 10.

40.00 Find no trace of $1/4$ sec. cor., set temporary cor., con-
tinue line W.

80.62 Cor. of secs. 3, 4, 9 and 10 brs. N. 43 lks. dist.,
which is a cedar post 4 ins. sq., 1 ft. high firmly
set and marked. I mark a bearing tree as follows:

A red cedar, 6 ins. in diam. brs. S. $31^{\circ}50'$ W.,
53 lks. dist., marked T. 5 N., R. 12 W., S. 9,
B.T.

No other trees large enough; dig pits $18 \times 18 \times 12$ ins.
in each section, $5-1/2$ ft. dist., raise mound of earth
and stone 5 ft. base, $2-1/2$ ft. high W. of cor.
I return to the cor. of secs. 2, 3, 10 and 11.

Thence I run

N. $89^{\circ}42'$ W. on a true line bet. sec. 3 and 10, over
gradual N.E. slope, through scattering cedar.

4.25 Change to N.W. slope along wire fence.

6.20 Private road brs. N.E. and S. 20° W., thence over
wash.

10.25 Ascend N.E. slope.

12.00 Farm house brs. S. about 20 chs.

19.00 Top of ridge brs. N. and S.

26.00 A small drain, course N.

30.00 Small drain, course N.

37.50 A small drain, course N.E. Ascend steep N.E. slope.

40.31 Set a granite stone $18 \times 10 \times 6$ ins., 12 ins. in ground
for $1/4$ sec. cor., marked $1/4$ on N. face; dig pits
 $18 \times 18 \times 12$ ins. E. and W. of cor., $3-1/2$ ft. dist.;
raise mound of earth $3-1/2$ ft. base, $1-1/2$ ft. high
N. of cor.

45.00 Top of ridge brs. N. and S.

45.35 Wire fence brs. N. and S., descend steep N.W. slope.

50.00 Drain, course N.W.

51.05 Drain, course N.E.

52.50 Top of spur brs. N. and S. Descend.

58.00 Drain, course N.E. Ascend east slope.

66.00 Change to gradual S.E. slope.

75.50 Top of ridge brs. N. and S. 200 ft. ascent. Descend
steep N.W. slope.

80.56 Set iron U. S. For. Res. Bdy. Post No. 107, 30 ins.
in the ground; raise mound of earth and stone 4 ft.
base, 1 ft. high around post, marked:

No. 107 on S. side of cap

1905 on S. side of cap

Reserve in S.E. and S.W. quadrants, also marked:

T. 5 N. S. 3 W. C. in N.E. quadrant

R. 12 W. S. 10 in S.E. quadrant

S. 19 in S.W. quadrant

S. 4 in N.W. quadrant, with 3

notches on E. and 5 notches on S. edges of rim.

80.62 Cor. of secs. 3, 4, 9 and 10 previously described.
Land, mountainous. Soil 3rd and 4th rate. Timber,
scrub cedar, chemise and live oak brush.
Formation, granite.

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West on a random line bet. secs. 4 and 9.

39.95 Intersect $\frac{1}{4}$ sec. cor. which is a cedar post 2 ins. sq.,
1 ft. high, firmly set and marked. I set a granite stone
15x9x7 ins., 10 ins. in the ground by the side of old
cor., marked $\frac{1}{4}$ on N. face, from which I mark

Cedar 6 ins. diam., brs. S. 74° 30' E.,

72 lks. dist., marked $\frac{1}{4}$ S. B. T.

A cedar 6 ins. diam., brs. N. 49° E., 89 lks.
dist., marked $\frac{1}{4}$ S. B. T.

Continue line west.

79.80 Cor. to secs. 4, 5, 8 and 9 brs. N. 10 lks. dist., which
is a cedar post 3 ins. sq., 1 ft. high above ground,
marked. I set a granite stone 16x8x7 ins., 10 ins. in
the ground by the side of old cor., marked 4 notches on
E. and 5 notches on S., from which

An oak 4 ins. diam., brs. S. 43° 45' E.

13 lks. dist., marked T. 5 N., R. 12 W., S. 9 B.T.

A cedar 5 ins. diam. brs. N. 88° 15' W.

150 lks. dist., marked T. 5 N., R. 12 W., S. 5 B. T.

No other trees large enough; dig pits 18x18x12 ins. in
each section $5\frac{1}{2}$ ft. dist.; raise mound of earth 5 ft. base,
 $2\frac{1}{2}$ ft. high N. of cor.

I return to the cor. of secs. 3, 4, 9 and 10.

Thence I run

West on a true line bet. secs. 4 and 9, through brush
and cedar.

.25 Drain, course N., 100 ft. descent. Ascend steep N.E. slope.

7.75 Top of spur brs. N. and S., 150 ft. ascent.

11.50 Small drain, course N.

16.00 Top of spur brs. N. and S.

23.10 Drain, course N.

27.00 Top of spur brs. N. and S.

30.70 Drain, course N.

32.25 Drain, course N.

35.00 Top of spur brs. N. and S.

39.95 $\frac{1}{4}$ sec. cor. previously described.

Thence I run

N. 89° 51' W.

40.25 Drain, course N. 10° W. Ascend gradual E. slope.

45.00 At this point I set off 5° 40' S. on decl. arc and at
12h. 11m. 31s. p.m., observe the sun on the meridian.
The resulting latitude is 34° 34' N. which is almost
30" greater than the proper latitude.

48.75 Drain, course N. 20° E.

49.25 Pipe line from spring in mountains brs. N. and S.

51.90 Drain, course N.

55.50 Small drain, course N.E.

59.00 Top of spur brs. N. and S.

62.00 Small drain, course N.E.

64.28 Wire fence brs. N. and S.

69.00 Change to steep North slope of mountains, through
dense growth of manzanita and live oak brush.

75.00 Descend gradual N.W. slope.

79.74 Set iron U. S. Forest Reserve Boundary Post No. 106,
30 ins. in the ground, raise mound of earth and stone
4 ft. base, 1 ft. high around post, marked:

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No. 106 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked:
T. 5 N. S. 4 W.O. in N.E. quadrant
R. 12 W. S. 9 in S.E. quadrant
S. 8 in S.W. quadrant
S. 5 in N.W. quadrant, with 4
notches on E. and 5 notches on S. edges of rim.
79.80 Cor. of secs. 4, 5, 8 and 9 previously described.
Land, mountainous.
Soil 3rd and 4th rate.
Timber, dense growth of live oak and manzanita.
Formation, granite.

March 6, 1905.

March 7:

At the cor. of secs. 4, 5, 8 and 9, T. 5 N., R. 12 W.,
at 8 a.m., l.m.t., I set off $34^{\circ}33'30''$ N. on the lat.
arc and $5^{\circ}20'$ S. on the decl. arc and determine a
meridian with the solar.
Thence I run
40.00 West on a random line between secs. 5 and 8.
Find no trace of $1/4$ sec. cor. Set temporary and
continue line west.
78.70 Cor. of secs. 5, 6, 7 and 8 brs. S. 44 lks. dist.,
which is a mound of stones, post decayed. I re-
establish cor. at same point as follows:
Set a granite stone $20 \times 10 \times 8$ ins. 15 ins. in the ground,
marked 5 notches on E. and S. faces, from which
A pinion pine, 12 ins. diam., brs. S. $89^{\circ}17'$ W.,
273 lks. distant, marked T. 5 N., R. 12 W., S. 7 B.T.
No other tree in limit. Dig pits $18 \times 18 \times 12$ ins. in each
section, $5-1/2$ ft. dist.; raise mound of earth and stone
5 ft. base, $2-1/2$ ft. high W. of cor. I return to the cor.
of secs. 4, 5, 8 and 9.
Thence I run
S. $89^{\circ}40'$ W. on a true line bet. secs. 5 and 8, over N.W.
slope through thick cedar and oak brush.
6.20 Drain, course N.E.
9.50 Top of spur brs. N.E. and S.W. Descend steep N.W. slope.
16.25 Drain, course N.E., 100 feet descent. Ascend steep East slope.
22.00 Top of ridge brs. N.E. and S.W. Descend gradual N.W. slope.
31.75 Drain, course N.W.
36.10 Drain, course N.E. Ascend gradual S.E. slope.
38.75 Top of ridge brs. N.E. and S.W. Descend N.W. slope.
39.35 Set a granite stone $24 \times 10 \times 9$ ins., 18 ins. in the
ground, for $1/4$ sec. cor., marked $1/4$ on N. face;
dig pits $18 \times 18 \times 12$ ins. E. and W. of cor. $3-1/2$ ft.
dist.; raise mound of earth and stone $3-1/2$ ft. base,
 $1-1/2$ ft. high, N. of cor.
51.68 Wire fence brs. N. and S.
52.00 Foot of descent brs. N.E. and S.W.
55.31 Dry wash, 20 lks. wide, course N.E. Ascend S.E. slope.
58.25 Drain, course S.E. Ascend E. slope through dense brush.
68.50 Top of spur brs. N.W. and S.E.
72.00 Drain, course S.E., ascend E. slope.

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- 78.64 Set iron U. S. Forest Reserve Boundary Post No. 105,
30 ins. in the ground; raise mound of earth and stone
4 ft. base, 1 ft. high around post, marked:
No. 105 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked:
T. 5 N., S. 5 W.C. in N.E. quadrant
R. 12 W., S. 8 in S.E. quadrant
S. 7 in S.W. quadrant
S. 6 in N.W. quadrant, with 5
notches on E. and S. edges of rim
- 78.70 Cor. of secs. 5, 6, 7 and 8 previously described
Land, mountainous.
Soil 3rd and 4th rate.
Timber, dense growth of brush, chenise, live oak,
manzanita and cedar.
Formation, granite.
-
- West on a random line bet. secs. 6 and 7.
- 41.00 $\frac{1}{4}$ sec. cor. brs. N. 4 lks. dist., which is a small
mound of stone, post decayed. I reestablish cor. at
same point as follows:
Set a granite stone 19x9x8 ins., 15 ins. in the ground
for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dig pits 18x18x12
ins., E. and W. of cor. $\frac{3}{4}$ ft. dist., raise mound of earth
and stone $\frac{3}{4}$ ft. base, $\frac{1}{4}$ ft. high N. of cor.
Set over cor. and continue line West.
- 81.50 Cor. of secs. 1, 6, 7 and 12, W. Bdy. of twp. brs. N. 50
lks. dist., heretofore described.
I return to the cor. of secs. 5, 6, 7 and 8
Thence I run
N. 89° 57' W. on a true line bet. secs. 6 and 7 over
east slope through brush.
- 6.50 Spur brs. N.W. and S.E.
9.75 Drain, course S.E.
19.00 Small drain, course S.E.
21.00 At this point I set off 5° 16' S. on decl. arc and at
12h. 11m. 17s., p.m., l.m.t., observe the sun on the
meridian. The resulting latitude is 34° 34' N., which
is about 30" greater than the proper latitude.
- 22.50 Small drain, course S.E.
24.50 Drain, course S.E. Ascend steep E. slope of mountain.
27.45 Small drain, course S.E.
41.00 Top of mountain brs. N. and S. 400 ft. above sec. cor.
41.00 $\frac{1}{4}$ sec. cor. previously described.
Thence I run
N. 89° 17' W. Descend steep W. slope of mountain.
- 42.50 Change to N.W. slope.
53.00 Drain, course N.W.
57.80 Drain, course N. Ascend E. slope.
65.75 Top of spur brs. N. and S. Descend steep W. slope.
81.00 Road brs. N.W. and S. 20° W., 400 ft. descent.
81.44 Set iron U. S. Forest Reserve Boundary Post No. 104,
30 ins. in the ground; raise mound of earth and stone
4 ft. base, 1 ft. high around post, marked:

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No. 104 on S. side of cap
1905 on S. side of cap
Reserve in S.E., S.W. and N.W. quadrants

Also marked:

T. 5 N. S. 6 W.C. in N.E. quadrant
R.12 W. S. 7 in S.E. quadrant
R.13 W. S.12 in S.W. quadrant
S. 1 in N.W. quadrant, with 1
notch on N. and 5 notches on S. edges of rim.

81.50 Cor. of secs. 1, 6, 7 and 12 previously described.
Land mountainous.
Soil 4th rate.
Timber, dense brush, live oak, manzanita, ohemise
and a few scattering pinion pine and cedar.
Formation, granite.

March 7, 1905.

March 4:

At the cor. of secs. 2, 3, 10 and 11, T. 5 N., R. 12 W.,
which is a cedar post, 2 ins. sq., 2 ft. high, in a
mound of stone firmly set and marked. I set a granite
stone 15x12x6 ins., 10 ins. in the ground, by the side
of the post, marked 2 notches on east and 5 notches on
south faces.

Thence I run

East on a random line bet. secs. 2 and 11.

40.00 Find no trace of 1/4 sec. cor. Set temporary, continue
line east.

79.38 Cor. of secs. 1, 2, 11 and 12 brs. N. 224 lks. dist.,
which is a cedar post 3 ins. sq., 3 ft. high above mound
of stone, 2 ft. base, 1 ft. high around post.
I set a granite stone 15x12x6 ins., 10 ins. in the
ground, west of old post, marked 1 notch on east and
5 notches on south faces; dig pits 18x18x12 ins. in
each section, 5-1/2 ft. dist.; raise mound of earth and
stone 5 ft. base, 2-1/2 ft. high, west of corner.
I return to the cor. of secs. 2, 3, 10 and 11.

Thence I run

N. 88° 24' E. on a true line bet. secs. 2 and 11, over
gradual N.E. slope, along wire fence.

.06 Set iron U. S. For. Rest. Bdy. Post No. 108, 30 ins. in
the ground; raise mound of earth and stone 4 ft. base,
1 ft. high around post, marked:

No. 108 on S. side of cap

1905 on S. side of cap

Reserve in S.E. and S.W. quadrants, also marked:

T. 5 N. S. 2 W.C. in N.E. quadrant

R.12 W. S.11 in S.E. quadrant

S.10 in S.W. quadrant

S. 3 in N.W. quadrant, with 2

notches on E. and 5 notches on S. edges of rim
of cap

2.00 Small drain, course N. Enter scattering cedar.

12.70 Drain, course N.E. Thence over nearly level land.

37.00 A ditch, 40 lks. wide, 4 ft. deep, course S. 80° E.
to N. 40° W.

39.69 Set a granite stone 20x10x6 ins., 15 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on N. face;

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dig pits 15x18x12 ins. E. and W. of cor. 3-1/2 ft.
dist.; raise mound of earth 3-1/2 ft. base, 1-1/2
ft. high N. of cor.
Leave wire fence at this cor. from W. to N.
40.02 Water tank at Harold Station brs. N. 30°48' E.
42.35 Wagon road brs. N. 30° W. and S. 30° E.
43.00 Set iron U. S. For. Res. Bdy. Post No. 109, 30 ins.
in the ground; raise mound of earth and stone 4 ft.
base, 1 ft. high around post, marked:
No. 109 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants
44.67 Center Southern Pacific Railway track brs. N. 30°48' W.
and S. 30°48' E.
46.40 Center same ditch from N.E. to W.
47.75 Small drain, course N.W.
50.50 Ascend W. slope.
52.50 Change to gradual N. slope.
69.00 Ridge brs. N. and S.
71.00 Small drain, course N.W.
79.38 Cor. of secs. 1, 2, 11 and 12 previously described.
Land, rolling and level.
Soil, 3rd and 4th rate.
Timber, scattering cedar and sage brush.
From this corner water tank at Harold brs. N. 61°55' W.

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

41.36 1/4 sec. cor. brs. N. 36° lks. (?) dist., which is
a cedar post 3 ins. sq., 2 ft. high in mound of stone.
I set a granite stone 14x12x8 ins., by the side of
post, 10 ins. in the ground, marked 1/4 on N. face;
dig pits 15x18x12 ins. E. and W. of cor. 3-1/2 ft.
dist.; raise mound of earth and stone 3-1/2 ft. base,
1-1/2 ft. high, N. of cor.
Set over cor. and continue line east.
82.17 Intersect E. bdy. of Twp. 29 lks. N. of cor. of secs.
1 and 12, which is a cedar post 3 ins. sq., 3 ft. high
in mound of stone in good state of preservation. Old
bearing tree S. 40° W. 22 lks. dist. in good state of
preservation.
I return to the cor. of secs. 1, 2, 11 and 12.
Thence I run
N. 89°30' E. on a true line bet. secs. 1 and 12.
.06 Set iron U. S. For. Res. Bdy. Post No. 110, 30 ins. in
the ground; raise mound of earth and stone, 4 ft. base,
1 ft. high around post, marked:
No. 110 on S. side of cap
1905 on S. side of cap
Reserve in S.E. and S.W. quadrants, also marked:
T. 5 N. S. 1 W.C. in N.E. quadrant
R.12 W. S.12 in S.E. quadrant
S.11 in S.W. quadrant
S. 2 in N.W. quadrant, with 1
notch on E. and 5 notches on S. edges of cap
Thence over gradual W. slope, through scattering
cedar and sage brush.
12.00 Change to gradual S.W. slope.
22.50 Change to gradual N. slope.

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28.00 Drain, course N.W.
31.00 Change to S.E. slope.
39.00 Drain, course N.E. Ascend steep west slope.
41.00 Top of ascent.
41.36 1/4 sec. cor. previously described.
Thence I run
S. 89° 35' E.
44.57 Drain, course N.E.
47.75 Drain, course N.E.
51.30 Drain, course N.
53.35 Drain, course N.
54.25 Flume course N.W. 10 lks. wide, 4 ft. deep
55.20 Wagonroad and telephone line brs. N.W. and S.E.
55.35 Set iron U. S. Forest Reserve Boundary Post No. 111
30 in. in the ground, raise mound of earth, 4 ft.
base, 1 ft. high around post, marked:
No. 111 on S. side of cap
1905 on S. side of cap
RESERVE in S.E. and S.W. quadrants
63.00 Ravine, 50 lks. wide, 10 ft. deep, course N.W.
Thence over gradual west slope.
81.65 Road brs. N. & S.
82.17 Corner Secs. 1 and 12 previously described
Land rolling
Soil third rate
Cedar brush

East bdy. T. 5 N., R. 12 W.

From the cor. of Secs. 1 and 12
Thence I run
South on a random line along east boundary of Secs. 12
40.00 Find no trace of old corner. Set temp. 1/4 cor.
57.17 C. C. Secs. 7 and 18, T. 5 N., R. 11 W., brs. E.
27 lks. dist., which is a cedar post 3 in. sq. 2 ft. high
in mound of stone, firmly set, marked and witnessed.
80.24 Cor. of Secs. 12 and 13 brs. E. 21 lks. dist. which is
a cedar post 3 in. sq., 3 ft. long in mound of stone
properly marked.
I set a sandstone 19x10x6 in. 12 in. in the ground by
the side of old post, marked 2 notches on N. and 4 notches
on S. side of stone, 6 notches on W. face, from which
I mark
A double cedar tree 12 in. diam. brs. S. 84° W.
27 lks. dist. marked T. 5 N., R. 12 W., S. 13 E. T.
I return to the cor. of Secs. 1 and 12.
Thence I run S. 0° 9' E. on a true line along E. Bdy.
of Sec. 12. Over gently rolling land through scattering
cedar.
.06 Set iron U. S. For. Res. Bdy. Post No. 112, 30 in. in the
ground, raise mound of earth and stone 4 ft. base,

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1 ft. high around post, marked:

No. 112 on S. side of cap
1905 on S. side of cap
RESERVE in S.W. quadrant, also marked
W. C. in N. E. quadrant
T. 5 N., S. 12 in S. W. quadrant
R.12 W., S. 1 in N. W. quadrant with 5 notches
on S. and 1 notch on N. edges of rim

2.00 Enter road brs. N. & S.
12.55 Cross road brs. N. 60° W. and S. 60° E.
13.00 Set iron U. S. For. Res. Bdy. Post No. 113, 30 in.
in the ground, raised mound of earth and stone 4 ft.
base, 1 ft. high around post, marked
No. 113 on S. side of cap
1905 on S. side of cap
RESERVE in S. W. and N. W. quadrants
16.80 Irrigation ditch brs. N. 60° W.
18.25 Telephone line brs. N. 56°30' W. and S. 56°30' E.
37.50 Old road brs. N.E. and S.W. Enter level land.
40.12 Set a sandstone 18x12x6 in. 12 in. in the ground for
1/4 sec. cor. (For E. Bdy. Sec.12) marked 1/4 on W.
face. Dig pits 18x18x12 in. N. and S. of cor.
3-1/2 ft. dist. Raised mound of earth and stone
3-1/2 ft. base, 1-1/2 ft. high W. of cor.
43.50 Leave valley, ascend gradual N. slope.
47.00 Drain, course N.W.
52.50 Top of low spur brs. E. and W.
Note: Cloudy, no observation for latitude.

57.05 Drain, course N.E.
59.17 C. C. secs. 7 and 18, T. 5 N., R. 11 W., brs. E.
12 lks. dist.
63.75 Wash, course N. E.
67.00 Ascend N. W. slope.
70.00 Drain, course N. W.
73.00 Road brs. N. W. and S. E.
78.00 Bend in a dry wash 20 lks. wide, from S. 20° W. to N. W.
80.24 Cor. of Secs. 12 and 13, previously described.
Land rolling and level. Soil second and third rate.
Timber scrub cedar and a few yucca palms.

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From the cor. of Secs. 12 and 13,
Thence I run S. on random line along E. Bdy. Sec. 13
40.00 Find no trace of 1/4 cor.
Set temp. 1/4 sec. cor.
58.90 C. C. Secs. 18 and 19, T. 5 N., R. 11 W., brs. E. 27 lks.
dist., which is a pine post 4 in. sq., 2-1/2 ft. high
in mound of stone marked C.C. T. 5 N., R. 11 W. on E.,
S. 18 on N., S. 19 on S. faces of post witnessed by
mound of stone E. of cor.

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79.28 I enlarge mound to 4 ft. base, 2 ft. high around post,
also enlarge mound of stone to 5 ft. base, 2 ft. high
E. of cor.
Cor. of Secs. 13 and 24 brs. E. 33 lks. dist. which is
an oak post 3 in. sq., 3 ft. long in mound of stone, 4
ft. base, 2 ft. high around post, marked
T. 5 N., R. 12 W., on W. face
S. 13 on N.
S. 24 on S. face
.06 I return to the cor. of Secs. 12 and 13, thence
I run S. 0° 14' E. on a true line along E. bdy. Sec. 13
Ascend gradual N.W. slope through cedar brush
Set iron U. S. For. Res. Bdy. Post No. 114, 30 in.
in the ground, raise mound of earth and stone 4 ft.
base, 1 ft. high around post, marked
No. 114 on S. side of cap
1905 on S. side of cap
RESERVE in S.W. and N.W. quadrants, also marked
W.C. in N.E. quadrant
T. 5 N., S. 24 in S.W. quadrant
R. 12 W., S. 13 in N.W. quadrant with 3 notches
on N. and S. and 6 notches on W. edges of rim
of cap
2.50 Small drain, course N.W.
5.00 Change to gradual S.W. slope.
13.25 A dry wash 10 lks. wide, course N.W. Ascend N.W. slope.
25.70 Drain, course N.W.
28.75 Old road brs. N.W. and S.E.
30.00 Head of drain brs. S.W.
37.00 Drain, course N.W.
38.50 Old deserted house brs. E. 70 lks. dist.
39.00 Ascend N.W. slope.
39.64 Set a sandstone 23x9x5 in. 17 in. in the ground for
1/4 sec. cor. (E. Bdy. Sec. 13) marked 1/4 on W. face, dig
pits 18x18x12 in. N. and S. of cor. 3-1/2 ft. dist., raise
mound of earth and stone 3-1/2 ft. base, 1-1/2 ft. high W.
of cor.
41.40 A rocky spur brs. E. and W.
42.75 Drain, course N.W.
48.00 Drain, course N.W. Thence over gradual N. slope.
58.90 C. G. Secs. 18 and 19, T. 5 N., R. 11 W., brs. E. 3 lks.
dist.
61.13 Drain, course N.W. Ascend N.E. slope.
77.00 Change to steep E. slope along rock ledge.
79.28 Cor. of Secs. 13 and 24 previously described.
I set a sandstone 20x12x10 in. in mound of stone W. of
old post marked 3 notches on N. and S. and 6 notches on
W. faces.
Land rolling and mountainous.
Soil fourth rate.
Timber cedar brush, live oak and pinion pine.

March 4, 1905.

March 8:

At the cor. of Secs. 13 and 24, E. Bdy. T. 5 N.,
R. 12 W., heretofore described, at 10 a.m., 1.m.t.,
I set off 34° 30' 30" N. on lat. arc and 4° 55' S. on decl.

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- are and determine a meridian with the solar.
- 19.36 Thence I run S. on a random line along E. Bdy. Sec. 24
1/4 sec. cor. W. Bdy. Sec. 19, T. 5 N., R. 11 W., brs.
W. 5 lks. dist. which is a granite rock 14x10x6 in. in
mound of stone, firmly set, witnessed and marked.
Old post set W. of stone.
- 39.89 1/4 sec. cor. E. Bdy. Sec. 24, T. 5 N., R. 12 W. brs.
W. 15 lks. dist. which is a granite stone 18x8x10 in.
in small mound of stone, also witnessed by small mound
of stone. I enlarge mound of stone around cor. to 3
ft. base, 1 ft. high. Raise mound of stone 3-1/2 ft.
base, 1-1/2 ft. high W. of cor. Set over cor. and con-
tinue line S.
- 58.85 C. C. Secs. 19 and 30, T. 5 N., R. 11 W. brs. W. 15 lks.
dist. which is Bdy. Post No. 45, San Gabriel For. Res.
which is an iron post 4 in. sq. at top, tapering, filled
with cement 2 ft. above ground, marked C. C. on W.,
S. 19, T. 5 N., R. 11 W. on N. face; S. 30, S. G. F. R.
45 on S. face; all marks are east in post. I raise a
mound of stone 5 ft. base, 1-1/2 ft. high around post.
- 80.87 Cor. Secs. 24 and 25, T. 5 N., R. 12 W. brs. W. 15 lks.
dist. which is a granite rock 14x14x6 in. above ground,
firmly set, marked and witnessed.
I return to cor. of Secs. 13 and 24.
Thence I run S. 0° 13' W. on a true line along E. Bdy.
Sec. 24, over S. E. slope through scrub cedar.
- 00.06 Set Iron U. S. For. Res. Bdy. Post No. 115, 30 in. in
the ground, raise mound of earth and stone 4 ft. base,
1 ft. high around post marked
No. 115 on S. side of cap
1905 on S. side of cap
RESERVE in N.W. and S.W. quadrants, also marked
W. C. in N.E. quadrant
T. 5 N., S. 25 in S. W. quadrant
R. 12 W., S. 24 in N. W. quadrant, with two
notches on S. and 4 notches on N. and 6 notches
on W. edges of rim of cap
- 4.75 Drain, course N. E.
- 10.65 Drain, course N. E. Ascend steep N. slope.
- 16.50 Top of rocky spur brs. N.W. and S.E. Thence over
gradual N.W. slope.
- 19.36 1/4 sec. cor. Sec. 19 brs. E. 2 lks. dist.
- 39.89 1/4 sec. cor. E. Bdy. Sec. 24, T. 5 N., R. 12 W.,
Thence I run S. 0° 13' W. along E. Bdy. Sec. 24
- 40.75 A rocky point, change to gradual S. slope
- 54.75 Descend rocky S. E. slope
- 57.30 Drain, course S. E. Ascend N. E. slope
- 58.85 C. C. Secs. 19 and 30, T. 5 N., R. 11 W. brs. W. 8 lks.
dist.
- 68.50 Descend rocky S. E. slope.

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71.30 A ravine 100 lks. wide, 20 ft. deep, course N. E.
Ascend gradual N. slope
79.50 Top of ridge brs. E. and W. Descend gradual S. slope
80.87 Cor. of Secs. 24 and 25, T. 5 N., R. 12 W. previously
described.
Land mountainous, soil fourth rate, timber cedar brush.
Formation volcanic rock.

S. on a random line along E. Bdy. Sec. 25, T. 5 N.,
R. 12 W.
40.77 1/4 sec. cor. brs. W. 30 lks. dist. which is a cedar
post 3 in. sq., 2 ft. high in small mound of stone
I enlarge mound to 3-1/2 ft. base, 1-1/2 ft. high
around post.
Set over cor. and continue line S.
80.41 Cor. of Secs. 25 and 36, brs. W. 35 lks. dist. which
is a cedar post 4 in. sq., 2 ft. high, firmly set,
witnessed and marked.
I return to the cor. of Secs. 24 and 25
Thence I run S. 0° 26' W. over gradual S. slope
through scrub cedar
3.50 Saddle of divide brs. E. and W. Descend
14.00 Drain, course N.W. Ascend
21.50 Top of spur brs. E. and W.
25.75 Drain, course W.
32.50 Top of spur brs. E. and W. Thence along W. slope
40.77 1/4 sec. cor.
Thence I run S. 0° 30' W.
45.00 Change to gradual N. W. slope
51.75 Change to steep N. slope
69.50 Top of ridge brs. E. and W. 600 ft. above 1/4 sec. cor.
Descend steep S. slope
73.00 Small drain, course S. 20° W.
80.41 Cor. of Secs. 25 and 36 previously described
Land mountainous. Soil third and fourth rate
Timber scattering cedar and pinion, manzanita, liveoak
and a few yucca palms.
Formation granite and volcanic.

March 8, 1905.

March 9:
At the cor. of Secs. 25 and 36, T. 5 N., R. 12 W.,
at 10 a.m., l.m.t., I set off 34° 28' N. on lat. arc
and 4° 32' S. on decl. arc and determine a meridian
with the solar.
Thence I run S. on a random line along E. Bdy. Sec. 36

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- 39.67 1/4 sec. cor. brs. E. 73 lks. dist. which is a cedar post 4 in. sq., 2 ft. high, firmly set, marked and witnessed
- 80.28 Set over cor. and continue line S.
Cor. of Tps. 4 and 5 N., Rs. 11 and 12 W., brs. E. 37 lks. dist. which is an iron post tapering, 4 in. sq. at top, filled with cement, 2 ft. above ground, marked T. 4, S. 6 on N.E.; S.G.F.R. 44, R. 11 W. in S.E.; R. 12 W., S. 1 in S.W.; T. 5 N., S. 36 on N.W. faces. Letters are cast in post. I mark bearing trees as follows:
A pinion pine 5 in. diam. brs. S. 74°45' E. 38 lks. dist. marked T. 4 N., R. 11 W., S. 6 B. T.
A pine 5 in. diam. brs. S. 27°10' W. 34 lks. dist. marked T. 4 N., R. 12 W., S. 1 B. T.
A pine 10 in. diam. brs. N. 60°10' W. 189 lks. dist. marked T. 5 N., R. 12 W., S. 36 B. T.
No other tree near. I return to the cor. of Secs. 25 and 36.
Thence I run S. 1°3' E. on a true line along E. Bdy. Sec. 36, over S.W. slope, through dense brush.
- .06 Set iron U. S. For. Res. Bdy. Post No. 116, 30 in. in the ground, raised mound of earth and stone 4 ft. base, 1 ft. high around post, marked
No. 116 on S. side of cap
1905 on S. side of cap
RESERVE in S.W. and N.W. quadrants, also marked
W. O. in N.E. quadrant
T. 5 N., S. 36 in S.W. quadrant
R. 12 W., S. 25 in N.W. quadrant, with 1 notch on S. and 5 notches on N. and 6 notches on W. edges of rim of cap
- 11.00 Small spur brs. N.E. and S.W.
- 17.00 Enter canyon brs. N. 80° E. and S. 80° W.
Foot descent.
- 24.00 Leave canyon. Ascend N.W. slope.
- 29.00 Top of spur brs. E. and W. 100 ft. descent. Descend S.W. slope.
- 35.00 Enter canyon brs. E. and W.
- 38.00 Dim road brs. E. and W.
- 39.67 1/4 sec. cor.
Thence I run S. 0°32' E.
- 42.50 Leave canyon, ascend gradual N.W. slope through dense brush.
- 45.00 Small spur brs. E. and W.
At this point I set off 4° 30' S. on decl. arc and at 12h. 10' 45" p.m., l.m.t., observe the sun on the meridian. The Resulting lat. is 34° 28' N.
- 50.00 Ascend steep N. slope of mountain.
- 57.40 Top of ridge brs. N.W. and S.E. 350 ft. ascent
Thence along W. slope
- 62.00 Drain, course N.W. Ascend steep N.W. slope
- 68.65 Top of ridge brs. E. and W.
- 70.00 Descend steep S. slope.

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76.00

Foot of descent.

50.28

Drain, course S.W. Thence over gradual W. slope
Cor. Tps. 4 and 5 N., Rs. 11 and 12 W., previously
described.

Land mountainous.

Soil fourth rate.

Timber pinion pine and cedar, chenise, manzanita
and liveoak brush.

Formation granite and volcanic.

HERE THE NEW FOREST BOUNDARY IS FORMED BY THE
WATERSHEDS OF SANTA CLARA AND TUJUNGA RIVERS
AND LITTLE ROCK CREEK.

(We now omit the Geological Field Notes for
the old boundary line Santa Barbara Forest
up to the point (Cor. No. 5 Rancho San Fran-
cisco, see Plat for location of cor. approxi-
mately) where the new forest boundary (or water-
shed) again joins the old boundary which old
boundary there is still the present forest boundary)

See C. S. 9369

April 20:

At Cor. No. 15 San Fernando Rancho, at 9 a.m., l.m.t.
I set off $11^{\circ} 21'$ N. on the decl. arc and $34^{\circ} 20'$ N.
on the lat. arc and determine a meridian with the
solar. Thence I run N. on a random line.

40.74

True point to cor. No. 5, San Francisco Rancho brs.
W. 292 lks. dist. The witness cor. tree has been cut
down but stump remains well preserved 2 ft. above
mound of stone. A 2 in. gas pipe stands in top of
stump and witnessed by two other 2 in. gas pipes.
The true point for cor. No. 5 brs. S. 40° E., 81 lks.
dist. from W. C., falling on steep rocky W. slope.
I set an oak post 4 in. sq. by 3 ft. long for cor.
No. 5, Rancho San Francisco at the true point marked
S. F. No. 5 on S. face from which

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An oak 8 in. diam. brs. S. $73^{\circ} 0'$ E., 36 lks. dist.
marked S. F. No. 5 B. T.
I then return to Cor. No. 15, San Fernando Rancho,
thence I run N. $4^{\circ} 6'$ W. on a true line. Ascend
S. W. slope through sagebrush.

.06 Set Iron U. S. Forest Res. Bdy. Post No. 151, 30 in.
in the ground, raise mound of earth and stone, 4 ft.
base, 1 ft. high around post, marked
No. 151 on S. side of cap
1905 on S. side of cap on rim
Reserve in N. E. quadrant
W. C. in N. E. quadrant
S. F. No. 5 on S. W. side of cap on rim
6.50 Drain, course S. W.
9.50 Ascend steep S. slope.
14.85 Top of high hill, descend steep N. W. slope over
cliff 30 ft. high
29.00 Large drain, course S. W. Ascend steep S. E. slope
32.00 Top of ridge brs. E. and W. Summit of San Gabriel
Mountain.
35.25 Drain, course E. and N. W.
40.74 True point for cor. No. 5, San Francisco Rancho
at which point
Set Iron U. S. For. Res. Bdy. Post No. 152 alongside
of the W. C. S. F. No. 5, 30 in. in the ground, raise
mound of earth and stone 4 ft. base, 1 ft. high around
post marked
No. 152 on S. side of cap
1905 on S. side of cap on rim
Reserve in N.E. and S.E. quadrants
W. C. in N. E. quadrant
S. F. No. 5 on W. side of cap
Land mountainous
Soil third rate
Timber oak and chemise brush
At the true point for cor. No. 5, San Francisco
Rancho, I set off $10^{\circ} 30'$ N. on decl. arc and at
11h. 58' 59" a.m., l.m.t., observe the sun on the
meridian. The resulting latitude is $34^{\circ} 22'$ N.
which is about the proper lat.
Thence I run N. 1° E. on a random line.
97.10 Set a flag.

April 20, 1905

April 21:
97.10 At this point I set off at 8 a.m., l.m.t., $34^{\circ} 22'$
N. on the lat. arc and $11^{\circ} 47'$ N. on the decl.
arc and determine a meridian with the solar. Con-
tinue random line N. 1° E.
124.60 C. C. of Secs. 1 and 12 brs. E. 72 lks. which is an
oak post 4 in. sq., 1 ft. above mound of stone, 3 ft.
base, 1 ft. high, firmly set, marked and witnessed.
At this point I set off $11^{\circ} 50'$ N. on decl. arc and
at 11h. 58' 47" a.m., l.m.t., observe the sun

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on the meridian.

The resulting lat. is $34^{\circ} 22'$ N. which is about the proper lat.

192.41 Cor. of Tps. 3 and 4 N., Rs. 15 and 16 W. brs. E. 868 lks. dist. which is a redwood post 4 in. sq., 2 ft. above ground, firmly set, marked and witnessed.

April 21, 1905.

April 22:

192.41 At this point I set off at 8 a.m., l.m.t., $34^{\circ} 28'$ N. on the lat. arc and $12^{\circ} 7'$ N. on the decl. arc and determine a meridian with the solar. Continue N. 1° E. on a random line.

216.00 At this point I set off $12^{\circ} 10'$ N. on decl. arc and at l.h. $58^{\circ} 34''$ a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 23'$ N. which is about the proper latitude.

235.00 Set a flag.

April 22, 1905.

April 24:

235.00 At this point at 8 a.m., l.m.t., I set off $34^{\circ} 23'$ N. on the lat. arc and $12^{\circ} 48'$ N. on the decl. arc and determine a meridian with the solar. Continue N. 1° E. on a random line.

321.50 At this point I set off $12^{\circ} 50'$ N. on the decl. arc and at l.h. $58'$ a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 24'$ N. which is about the proper lat.

356.50 Cor. of Secs. 19, 24, 25 and 30, E. Bdy. T. 4 N., R. 16 W., also cor. No. 6, San Francisco Rancho brs. E. 256 lks. dist. which is a stake 2 in. sq. set in mound of stone, firmly set, marks are plain. I set a granite stone $20 \times 8 \times 5$ in. 14 in. in the ground alongside of stake, marked S. F. No. 6 on W. face, 2 notches on S. and 4 notches on N. faces

April 24, 1905.

April 25:

I return to the true point for cor. No. 5, San Francisco Rancho, thence I run N. $1^{\circ} 24'$ E. on a true line.

1.70 Wagonroad brs. N. 20° E. and S. 20° W. Ascend through brush and oak timber.

3.50 Small drain, course E.

7.50 Small drain, course E.

11.55 Drain, course E.

16.75 Descend steep N. E. slope.

17.00 Enter valley brs. N. 20° W. and S. 20° E. Kern River Power Co.'s line brs. N. 58° W. and S. 58° E.

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17.50	Drain, course N. 20° W.
18.20	Wire fence brs. E. and W.
19.20	Road brs. N. 20° W. and S. 20° E.
19.82	N.E. cor. of derrick brs. S. 54° 52' W. 13 lks. dist.
23.89	A post 4 in. sq. brs. W. 5 ft. dist.
26.00	Oil derrick brs. W. 12 lks. dist.
27.37	Iron pipe on line.
30.00	Oil derrick brs. W. 18 lks. dist.
30.25	Ascend N. E. slope.
30.75	Top of low spur.
33.50	Dim road brs. E. and W.
33.62	Iron pipe on line.
36.50	Ascend steep S. slope.
38.75	Top of spur brs. E. and W. Descend N. slope.
46.75	Drain, course W. Ascend S.W. slope
49.69	Top of spur brs. E. and W. Descend steep N. slope
54.75	Drain, course W. Ascend steep S.W. slope
56.75	Top of spur brs. E. and W.
60.00	Drain, course S.W.
65.75	Top of ridge brs. E. and W. Descend N.E. slope
70.25	Road brs. E. and W.
75.00	Change to N.W. slope
77.00	Drain, course W. Ascend.
79.90	Top of spur brs. E. and W.
83.30	Descend steep N.W. slope
85.83	Sandstone cliff 30 ft. high brs. N. 70° W. and S. 70° E.
91.66	Pumping plant brs. W. 10 lks. dist.
93.91	Thence over gradual N. slope
96.85	Set iron U. S. For. Res. Bdy. Post No. 153, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked No. 153 on S. side of cap 1905 on S. side of cap on rim Reserve in N.E. and S.E. quadrants S. F. on W. side of cap on rim
97.00	Road brs. N. 70° E. and S. 70° W.
98.75	Creek 20 lks. wide, course N. 70° W. Small stream of water not fit for drinking.
99.75	Ascend S. E. slope
106.75	Top of ridge brs. E. and W. Descend gradual N. W. slope
109.82	Wire fence brs. E. and W. Leave brush, enter level land.
118.92	Change to nearly level land
119.02	Wire fence brs. E. and W. Leave field
119.05	Private road brs. E. and W.
120.85	Wash, course S. 20° W. Ascend through brush
124.45	Top of ridge brs. E. and W.
124.60	C. C. of Secs. 1 and 12 brs. W. 17 lks. dist. Descend N. slope along wire fence
133.80	Drain, course W. Ascend
140.30	Top of ridge brs. E. and W. Wire fence brs. E. and W. Descend N. W. slope
147.90	Creek 10 lks. wide, course S. W. Small stream of water Ascend south slope
151.25	Spur brs. N.E. and S.W.

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155.50	Spur brs. N.E. and W.
157.00	Drain, course S.W.
161.50	Top of spur brs. N.E. and S.W.
162.90	Drain, course S.W.
164.00	Spur brs. N.E. and S.W.
165.40	Drain, course S.W.
171.00	Top of ridge brs. E. and W.
178.10	Drain, course N.E. Ascend S.E. slope
182.00	Top of spur brs. N.E. and S.W. Descend N.E. slope
191.75	Enter Placerita Valley brs. E. and W.
192.41	Cor. of Tps. 3 and 4 N., Rs. 15 and 16 W. brs. E. 7.30 chs. dist.
194.80	Set iron U. S. For. Res. Bdy. Post No. 154, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked No. 154 on S. side of cap 1905 on S. side of cap on rim Reserve in N.E. and S.E. quadrants S. F. on S. W. side of cap on rim from which an oak 24 in. in diam. brs. S. 69° 45' W. 88 lks. dist. marked Bdy. Post No. 154 B. T. An oak 30 in. diam. brs. N. 80° 10' E. 208 lks. dist. marked Bdy. Post No. 154 B. T.

April 25, 1905.

No. 154 moved 1° 24' E. 9 ft. 5", using variation of 15° 30'
E. on May 5, 1915 (See letter S.H.D. "L.S.B. Boundaries"
5/5/15)

April 26:

194.40	(?) Continue N. 1° 24' E. on a true line
197.40	Telephone line brs. N. 70° W. and S. 70° E.
199.30	Placerita Creek 100 lks. wide, course W.
209.25	Dry Creek course N. 70° W.
210.00	Dim road brs. E. and W.
216.00	Leave Placerita Valley brs. N.W. and S.E. Ascend S. slope
223.90	Top of spur brs. N.E. and S.W.
229.75	Descend N.W. slope
231.60	Drain, course S.W. Ascend
235.00	Change to gradual S.W. slope
239.00	Drain, course S.W.
242.00	Top of ridge brs. E. and W. Descend steep N. slope
245.63	Drain, course N. E.
249.00	Foot of descent brs. E. and W.
251.00	Dim road brs. E. and W.
257.90	Wash 50 lks. wide, course W.
259.50	Ascend S. slope
261.30	Side hill drain, course S.W.
262.00	Fir brs. N.E. and S.W.
263.50	Drain, course W.
277.50	Spur brs. N.E. and S.W.
278.82	Drain, course S.W. Ascend steep S. slope Change to gradual S. slope Top of ascent Set iron U. S. For. Res. Bdy. Post No. 155, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post marked

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No. 155 on S. side of cap
1905 on S. side of cap on rim
Reserve in N.E. and S.E. quadrants
S. F. on S. W. side of cap on rim
Descent gradual N. W. slope
286.13 Dim road brs. E. and W.
286.50 Wash 20 lks. wide, course W. Old placer diggings
Ascend gradual S. slope
293.00 Top of low ridge brs. E. and W. Descend gradual
N. W. slope
301.50 Drain, course W. ascend
308.50 Low ridge brs. E. and W. Descend gradual N. slope
313.00 Trail brs. N.E. and S.W.
316.50 Drain, course N. 10° W.
318.00 Drain, course N. 10° W.
339.00 Enter old dead orchard
344.50 Leave orchard brs. E. and W.
354.30 Dry wash, 20 lks. wide, course N.W.
356.50 Cor. of Secs. 19, 24, 25 and 30, which is also cor.
No. 6, Rancho San Francisco, previously described.
Land mountainous and rolling
Soil third and fourth rate
Timber some oak, chemise and sagebrush

April 26, 1905.

April 29:

At the corner of Secs. 19, 24, 25 and 30, which is
also Rancho San Francisco Cor. No. 6, at 8 a.m.
l.m.t., I set off 34° 24' N. on the lat. arc and
14° 24' N. on the decl. arc and determine a meridian
with the solar. Thence I run N. on a random line
bet. Secs. 19 and 24, W. Bdy. T. 4 N., R. 15 W. to
cor. No. 7, San Francisco Rancho.
40.00 Find no trace of 1/4 sec. cor. Set temp. 1/4 sec. cor.
79.80 Cor. of Secs. 13, 18, 19 and 24 brs. W. 7 lks. dist.
which is a post badly decayed in mound of stone, marks
almost obliterated.
I set a granite stone 20x10x8 in. 15 in. in the ground
alongside of old cor. for sec. cor. marked S.F. on W.
face, with 3 notches on N. and 3 notches on S. faces.
Continue random line N.
98.92 Cor. No. 7 San Francisco Rancho washed out.
The true point for cor. falls W. 9 lks. dist. which I
located from a cottonwood 8 in. diam. bearing S. 72° W.
207 lks. dist. from true point marked S. F. No. 7 B. T.

No trace of N.E. bearing tree. I set a granite stone
18x12x10 in. in mound of stone, 3 ft. base, 1 ft. high
marked S.F. No. 7 on W. face, at true point for San
Francisco Rancho Cor. No. 7. This cor. is situated at
the foot of a 50 ft. cliff on the edge of the Santa
Clara River. I then return to cor. No. 6. Also the
cor. of Secs. 19, 24, 25 and 30.

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.06 Thence I run N. 0° 3' W. on a true line to Cor. No. 7
Set iron U. S. For. Res. Bdy. Post No. 156, 30 in. in
the ground, raise mound of stone 5 ft. base, 1 ft.
high around post marked
No. 156 on S. side of cap
1905 on S. side of cap on rim
Reserve in N.E. and S.E. quadrants, also marked
T. 4 N., S. 19 W.C. in N.E. quadrant
R.15 W., S. 30 in S.E. quadrant
R.16 W., S. 25 in S.W. quadrant
S.24 in N.W. quadrant
S.F. No. 6 on E. side of cap, 2 notches on S.
and 4 notches on N. edges of rim of cap
Thence over level land along dim road
3.50 Leave road, brs. to N. 20° E. Enter brush.
9.75 Top of small spur brs. E. and W. Thence over level
land.
30.00 Top of low spur brs. E. and S. Ascend S.E. slope
37.50 Top of spur brs. E. and W. Descend gradual N.E. slope
39.75 Enter level land brs. E. and W.
39.90 Set a granite stone 10x8x6 in. in mound of stone 3 ft.
base, 1 ft. high for 1/4 sec. cor. marked 1/4 on E.
and S.F. on W. faces, from which an oak 18 in. diam.
brs. N. 10° E., 10 lks. dist. marked 1/4 S. E. T.
43.00 Ascend spur
45.00 Top of spur brs. E. and W. Descend through dense brush
47.00 Enter Santa Clara Valley brs. E. and W.
51.00 Wash, course W.
59.75 Wire fence brs. E. and W.
60.50 Center of S. P. R. R. track brs. N. 81° 15' E. and
S. 81° 15' W.
61.25 Telegraph line brs. N. 81° 15' E. and S. 81° 15' W.
61.25 Set iron U. S. For. Res. Bdy. Post No. 157, 30 in. in
the ground, raise mound of earth and stone 5 ft. base,
1 ft. high around post, marked
No. 157 on S. side of cap
1905 on S. side of cap on rim
Reserve in N.E. and S.E. quadrants
S. F. on W. side of cap on rim
61.75 Wagonroad brs. N. 81° 15' E. and S. 81° 15' W.
61.85 Wire fence brs. N. 81° 15' E. and S. 81° 15' W.
Thence along wire fence
79.80 Cor. of Secs. 13, 18, 19 and 24 previously described
Continue N. 0° 3' W. on a true line
86.30 Enter wash of the Santa Clara River, course W.
98.00 Santa Clara River Bed 80 lks. wide, course W.
98.92 Cor. No. 7, Rancho San Francisco (true point) previously
described
Land level and mountainous, soil third rate
Timber some oak and cottonwood, chemise, sage and
manzanita brush.

.81 Thence I run N. 41° W. on a random line to cor. No. 8
Rancho San Francisco
At this point I set off 14° 27' N. on the decl. arc
and at 11h. 57' a.m., l.m.t., observe the sun on the

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The resulting lat. is $34^{\circ} 25'$ N. which is $30''$ less than the proper lat.

86.77

Set a flag

April 29, 1905

May 1:

86.77

At this point at 9 a.m., l.m.t., I set off $24^{\circ} 26'$ N. on the lat. arc and $15^{\circ} 2'$ N. on the decl. arc and determine a meridian with the solar. Thence I continue N. $41^{\circ} 0'$ W. on a random line

138.70

At this point I set off $15^{\circ} 3'$ N. on the decl. arc and at 11h. 57' a.m., l.m.t. observe the sun on the meridian. The resulting lat. is $34^{\circ} 26'$ N. which is about the proper lat.

186.75

Cor. No. 8, Rancho San Francisco brs. N. 49° E. 167 lks. dist. which is a galvanized iron pipe, 1 in. diam. 1 ft. above mound of stone, 3 ft. base, 1 ft. high. I dig in mound of stone and found decayed portion of old post. Set a granite stone $15 \times 10 \times 6$ in. in mound of stone alongside of iron pipe marked "S. F. No. '8' on W. face. I then return to Cor. No. 7, Rancho San Francisco. Thence I run N. $40^{\circ} 29'$ W. on a true line to Cor. No. 8.

.63

.81

Top of perpendicular bank 50 ft. high, brs. E. and W. Set iron U. S. For. Res. Bdy. Post No. 158, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked

No. 158 on S. side of cap

1905 on S. side of cap on rim

Reserve in S. E., N. E. and N. W. quadrants

W. C. in N. E. quadrant

S. F. No. 8 on S. W. side of rim of cap

Thence over nearly level land through sagebrush

10.69

Top of spur brs. N.E. and S.W.

12.70

Enter valley.

14.00

Dry wash, 20 lks. wide, course S. W. Thence over nearly level land through chemise and wild cherry brush.

23.57

Wash 10 lks. wide, course S. Ascend gradual S. E. slope

34.93

Top of spur brs. N. W. and S. E.

37.56

Top of spur brs. N. W. and S. E.

40.40

Top of ridge brs. N. E. and S. W.

44.73

Descend N. W. slope

46.00

Drain, course S. Thence over nearly level tableland

60.40

Leave tableland. Descend steep N. W. slope through dense brush along wire fence

65.00

Change to broken S. slope

80.00

Dead man's canyon, course S. W.

86.77

Set iron U. S. For. Res. Bdy. Post No. 159, 30 in. in the ground. Raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked

No. 159 on S. side of cap

1905 on S. side of cap on rim

Reserve in S. E., N. E. and N. W. quadrants

S. F. on S. W. side of cap on rim

No. 159 moved S. $40^{\circ} 45'$ E. 40 links on Nov. 2, 1912.
See letter of S. H. D. - O, S-B.-Boundaries 11/6/12

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86.87	Road brs. N. E. and S. W.
87.07	Wire fence brs. N. W. and S. E. Enter field
93.50	Wash 100 lks. wide, course S. W.
103.69	Enter old orchard
108.65	Leave level land, ascend S. E. slope
110.00	Top of spur brs. N. & S. Change to S. W. slope
117.00	Change to S. E. slope
121.50	Change to N. E. slope
124.50	Top of ridge brs. N. E. and S. W. Descend steep N. W. slope
131.50	Change to gradual E. slope
138.00	Wash 10 lks. wide, course N. E.
138.70	Dim road brs. N. E. and S. W.
139.00	Ascend gradual S. E. slope
152.35	Same wash, course S. E.
155.50	Ascend steep broken E. slope
159.25	Top of ridge brs. N. & S.
170.02	Descend steep slide 50 ft. high
186.75	Cor. No. 8, San Francisco Rancho previously described
	Land mountainous
	Soil third and fourth rate, sandy and rocky
	Timber chemise and cherry brush

May 1, 1905

May 2:

83.75	At Cor. No. 8, San Francisco Rancho at 9 a.m., l.m.t., I set off $34^{\circ} 26'$ N. on lat. arc and $15^{\circ} 20'$ N. on the decl. arc and determine a meridian with the solar. Thence I run N. $34^{\circ} 0'$ W. on a random line to Cor. No. 9
89.33	At this point I set off $15^{\circ} 21'$ N. on the decl. arc and at 11h. $54' 7''$ a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 28'$ N. which is about the proper lat.
.06	Cor. No. 9, Rancho San Francisco brs. N. $56^{\circ} 0'$ E. 50 lks. dist. which is an oak post 2 in. sq., 18 in. above ground, marks nearly obliterated and the post so badly decayed that it broke off when I touched it. I set a granite boulder $20 \times 16 \times 11$ in. 15 in. in the ground, by the side of old post marked S. F. No. 9 on S. W. face, raise mound of stone 3 ft. base, 1 ft. high around cor. I then return to Cor. No. 8, San Francisco Rancho. Thence I run N. $33^{\circ} 41'$ W. on a true line to Cor. No. 9, San Francisco Rancho, over level land through dense brush
	Set iron U. S. For. Res. Bdy. Post. No. 160, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked
	No. 160 on S. side of cap
	1905 on S. side of cap on rim
	Reserve in S. E., N. E. and N. W. quadrants
	W. C. in N. E. quadrants
	S. F. No. 8 on S. W. side of cap on rim

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2.40 Wash 10 lks. wide, course W. Ascend gradual S. E. slope
8.40 Top of ridge brs. N. E. and S. W. Thence along top of
spur. Descend
19.50 Change to S. E. slope
21.75 Ridge brs. N. E. and S. W.
25.00 Enter canyon course S. W.
26.90 Drain, course S. W.
28.25 Kern River Power Co's Line brs. N. 35° E. and S. 35° W.
34.50 Enter road brs. S. 34° W. and N. 34° W.
37.00 Enter wash, course S. W.
47.20 Leave wash, course from north to northeast
47.50 Leave road brs. from N. W. to S. 34° E.
47.92 Set iron U. S. For. Res. Bdy. Post No. 161, 30 in. in
the ground, raise mound of earth and stone 5 ft. base,
1 ft. high around post, marked
No. 161 on S. side of cap
1905 on S. side of cap on rim
Reserve in the S. E., N. E. and N. W. quadrants
S. F. on S. W. side of cap on rim
48.25 Ascend S. W. slope
52.75 Drain, course S. W.
56.75 Top of spur brs. N. W. and S. E.
61.50 Drain, course S. E.
65.70 Drain, course S. E. Ascend
69.50 Top of ridge brs. N. E. and S. W.
71.50 Descend
71.75 Drain, course N. E.
74.75 Drain, course S. E. Ascend
78.50 Top of ridge brs. N. E. and S. W.
80.90 Drain, course W.
82.00 Low spur brs. E. and W.
82.50 Drain, course W.
83.75 Top of ridge brs. E. and W. Descend gradual N. E. slope
89.33 Cor. No. 9, Rancho San Francisco previously described
Soil fourth rate
Land mountainous
Timber sage, chemise and manzanita brush

Thence I run N. 81° 2' W. on a Random line to Cor. No. 10,
San Francisco Rancho
Set flag

May 2, 1905

May 3:

72.00 At this point, at 10 a.m., l.m.t., I set off 34° 28'
N. on the lat. arc and 15° 38' N. on the decl. arc and
determine a meridian with the solar
I continue random line N. 81° 2' W.
105.04 At this point I set off 15° 39' N. on the decl. arc and
at 11h. 36° 50" a.m., l.m.t., observe the sun on the
meridian. The resulting lat. is 34° 28' N. which is
about the correct latitude.
138.25 Set a flag

May 3, 1905

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Jan. 11, 1906, furnished by Geological Survey

	May 4:
138.25	At this point, at 9 a.m., l.m.t., I set off 34° 28' N. on the lat. arc and 15° 55' N. on the decl. arc and determine a meridian with the solar. I continue random line N. 81° 2' W.
186.90	At this point I set off 15° 57' N. on the decl. arc and at 11h. 56' 43" a.m., l.m.t., observe the sun on the meridian. The about 20" less than the proper lat. /resulting lat. is 34°28'N. which is
265.00	Set a flag. May 4, 1905.
	May 5:
265.00	At this point at 9 a.m., l.m.t., I set off 34° 28' N. on the lat. arc and 16° 12' N. on the decl. arc and determine a meridian with the solar.
	Thence I continue N. 81° 2' E. on a random line
300.00	At this point I set off 16° 14' N. on the decl. arc and at 10h. 50' 36" a.m., l.m.t., observe the sun on the meridian. The resulting lat. is 34° 28' N. which is about the proper lat.
320.96	Cor. No. 10, Rancho San Francisco, brs. S. 8° 58' W. 34 lks. dist. which is a pine post 4x3 in. sq. 2 ft. above mound of stone, 3 ft. base, 1 ft. high, firmly set and marked S. F. No. 10 on S. W. face
	Note: The liveoak tree cor. for S. F. No. 10 entirely destroyed. A deep depression in the ground remains, evidently the place where tree cor. stood. Post above described stands on edge of depression. The old cherry stump described in original notes has been washed out.
	I set a granite stone 26x8x8 in. 18 in. in the ground, by the side of the post, marked S. F. No. 10 on S. E. face. I return to Cor. No. 9, Rancho San Francisco.
	Thence I run N. 81° 5' W. on a true line to Cor. No. 10 San Francisco Rancho. Ascend gradual N. E. slope through brush.
.06	Set iron U. S. For. Res. Bdy. Post No. 162, 30 ins. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, I marked No. 162 on S. side of cap 1905 on S. side of cap on rim Reserve in S. E., N. E. and N. W. quadrants, W. C. in the N. E. quadrant S. F. No. 9 on the S. W. side of cap on rim
2.25	Drain, course N. E.
5.50	Top of small spur brs. N. & S. Descend
7.92	Top of small spur brs. N. & S.
14.00	Enter canada brs. N. E. and S. W. Ascend E. slope
29.13	Top of spur brs. N. & S.
31.63	Road brs. N. W. and S. E.
32.07	Set iron U. S. For. Res. Bdy. Post No. 163, 24 in. in the ground, raise mound of earth and stone 6 ft. base, 1-1/2 ft. high around post, marked No. 163 on S. side of cap 1905 on S. side of cap on rim Reserve in N. E. and N. W. quadrants S. F. on S. side of cap on rim

Copied from W.H.Thorn's Survey of Nov.28,1904
Jan. 11, 1906, furnished by Geological Survey

32.12	Wire fence brs. N. W. and S. E.
33.00	Top of small spur brs. N. & S.
36.00	Enter San Francisquito Valley brs. N. & S.
45.80	Enter wash, course S.
55.70	Leave wash, course S.
64.25	Leave valley, ascend steep E. slope through dense brush
72.00	Top of spur brs. N. & S. Thence over broken N. slope
83.43	Top of spur brs. N. W. and S. E. Descend gradual W. slope
88.00	Enter level land brs. S. E. and N. W.
95.00	Leave level land, ascend S. slope
98.98	Top of spur brs. N. & S. Wire fence brs. N. & S.
100.00	Drain, course S. E.
105.04	Top of spur brs. N. & S.
112.00	Drain, course S. E.
115.56	Top of spur brs. N. & S. Set a flag

May 5, 1905.

	May 6:
115.56	Continue on the true line
118.00	Drain, course N. E. Ascend E. slope through dense brush,
128.90	Top of spur brs. N. E. and S. W.
130.00	Descend steep S. W. slope
131.85	Top of ridge brs. N. & S.
134.00	Drain, course S. E. Ascend steep S. slope
138.25	Set Iron U. S. Forest Res. Bdy. Post No. 164, 30 in. in the ground, raised mound of earth and stone 5 ft. base, 1 ft. high around post, marked
	No. 164 on S. side of cap
	1905 on S. side of cap on rim
	Reserve in N. E. and N. W. quadrants
	S. F. on S. side of cap on rim
	Descend gradual W. slope
142.25	Drain, course S. W.
146.00	Same drain, course N. W.
151.25	Top of spur brs. N. & S. Descend N. W. slope
156.50	Same drain, course S. 70° W.
163.00	Drain, course S.
167.50	Spur brs. N. & S.
168.40	Drain, course S.
171.00	Top of spur
176.00	Wash 20 lks. wide, course S. W. Ascend
179.80	Drain, course S. W.
185.95	Drain, course S. W.
186.90	Top of spur brs. N. & S. Descend W. slope
192.50	Ravine 50 lks. wide, 20 ft. deep, course S. W.
195.80	Drain, course S. E. Ascend steep E. slope
208.17	Top of ridge brs. N. & S.
	Set Iron U. S. For. Res. Bdy. Post No. 165, 30 in. in the ground, raised mound of earth and stone 5 ft. base, 1 ft. high around post, marked

Copied from W.H.Thorn's Survey of Nov.28,1904
Jan. 11, 1906, furnished by Geological Survey

No. 165 on S. side of cap
1905 on S. side of cap on rim
Reserve in N. E. and N. W. quadrants
S. F. on S. side of cap on rim

208.25	Descend broken W. slope
210.25	Drain, course S. W.
212.50	Spur brs. N. E. and S. W.
218.00	Change to steep W. slope
233.50	Drain, course S. W. Ascend steep N. W. slope
236.50	Top of ridge brs. N. E. and S. W.
241.15	Drain, course S. W.
248.50	Drain, course S. W. Ascend E. slope
251.50	Spur brs. N. & S.
252.00	Drain, course S. E.
253.70	Drain, course S. E.
258.00	Ridge brs. N. & S.
262.00	Drain, course S.
265.00	Top of spur brs. N. & S.
266.75	Small drain, course S.
268.00	Top of spur brs. N. & S.
269.70	Set iron U. S. For. Res. Bdy. Post 166, 30 in. in the ground, raised mound of earth 5 ft. base, 1 ft. high around post, dig pits 36x36x12 in. in each side of post on line 8 ft. dist. marked
	No. 166 on S. side of cap
	1905 on S. side of cap on rim
	Reserve in N. E. and N. W. quadrants
	S. F. on S. side of cap on rim
270.25	Head of small drain, course S. W.
273.95	Head of small drain, course S. W.
275.90	Spur brs. N. & S. Descend steep S. W. slope
277.15	Side hill drain, course S.
278.52	Small spur brs. N. & S. Descend
280.50	Drain, course S. E. Ascend steep S. E. slope
284.50	Top of ascent, thence over mesa
292.50	Leave mesa, descend steep S. W. slope
296.10	Drain, course S.
300.00	Top of mesa brs. N. & S.
301.40	Leave mesa, descend steep S. W. slope
307.49	A liveoak 3 ft. diam. on line, but 2 notches on E. and W. faces
315.00	Enter Castaie Valley brs. N. & S.
320.90	Set iron U. S. For. Res. Bdy. Post No. 167, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked No. 167 on S. side of cap
	1905 on S. side of cap on rim
	Reserve in N.E., N.W. and S.W. quadrants
	W. C. in N. E. quadrant
	S. F. No. 10 on S. side of cap on rim
320.96	Cor. No. 10, Rancho San Francisco previously described Land mountainous, soil fourth rate Timber dense growth of chemise and sagebrush

May 6, 1905.

Copied from W.H. Thorn's Survey of Nov. 28, 1904
Jan. 11, 1906, furnished by Geological Survey

May 8:

At Cor. No. 10, San Francisco Rancho, heretofore described, at 8 a.m., l.m.t., I set off $34^{\circ} 28' N.$ on the lat. arc and $17^{\circ} 2' N.$ on the decl. arc and determine a meridian with the solar. Thence I run S. $33^{\circ} 16' W.$ on a random line to Cor. No. 11 of San Francisco Rancho

115.34

C. C. of Sess. 1 and 2, T. 4 N., R. 17 W. brs. S. $56^{\circ} 44' E.$, 87 lks. dist. which is a redwood post having 3 sides, 3 in. wide, 18 in. above ground, firmly set and marked

S. F. on S. face

T. 4 N., S. 1 on N. E. face

R. 17 W., S. 2 on N. W. face

At this point I set off $17^{\circ} 4' N.$ on the decl. arc and at 11h 56' 24" a.m., observe the sun on the meridian. The resulting lat. is $34^{\circ} 26' N.$ which is about the proper latitude.

261.80

Set a flag

May 8, 1905.

May 9:

261.80

At this point at 8 a.m., l.m.t., I set off $34^{\circ} 26' N.$ on the lat. arc and $17^{\circ} 18' N.$ on the decl. arc and determine a meridian with the solar. Continue S. $33^{\circ} 16' W.$ on a random line.

350.79

Cor. No. 11 San Francisco Rancho brs. S. $56^{\circ} 44' E.$ 130 lks. dist. which is a White Cedar post 6 in. sq., 5 ft. above ground, firmly set, marked S. F. No. 11 on E. face; $1/4$ S. on W. face

Note: This post is at angle of wire fence and is somewhat charred. At this cor. I set off $17^{\circ} 21' N.$ on the decl. arc and at 11h. 56' 20" a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 25' N.$ which is about the proper latitude. I then return to Cor. No. 10, San Francisco Rancho, thence I run S. $33^{\circ} 3' W.$ on a true line to cor. No. 11, over level land, along wire fence.

14.50

A well brs. W. 27 lks.

18.50

Enter willows brs. N. & S.

20.25

Enter wash of the Castao Canyon, course S. Small stream of water

45.37

Wire fence brs. E. and W.

53.00

House brs. W. about 5 chs.

58.70

Road brs. N. & S.

59.70

Wire fence brs. N. & S.

60.25

Leave wash, course S.

61.97

Set iron U. S. For. Res. Bdy. Post No. 168, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked

No. 168 on S. side of cap

1905 on S. side of cap on rim

Reserve in N.W., S.W. and N.E. quadrants

S. F. on E. side of cap on rim

Field notes in regards to resetting of boundary post No. 169, on boundary of Santa Barbara National Forest, where said boundary crosses Hasley canyon.

Post was formally set by W. H. Thorn, but was recently washed out.

February 27th, 1914

Variation 16° W.

I found that storm waters had cut new channel, and left post leaning on north side of gulch about 8 feet deep. Post was leaning, but bottom was still in original position. I plumb instrument over bottom of post, and sight south 33° 3' W. on flag a distance of 94 links. At this point I reset boundary post 3 ft. in earth, one foot above mound of earth and stone 3 ft. in diameter at base, by 1 ft. in height.

Work was done with a Forest Service standard compass, made by W. & L. E. Gurley, Troy, N.Y.

Chain used was 66 feet in length, made by Keuffel & Esser, New York.

Walter F. Einerick (Signed)

Asst. Forest ranger.

FOREST SERVICE
Santa Barbara National Forest
Santa Barbara, Calif.

MAR. 1, 1914

R E C E I V E D

(Stamp)

Answered _____

65.75 Leave Castac Valley brs. N. & S. Ascend steep bank
 30 ft. high
 68.00 Top of bank
 69.50 Ravine 150 lks. wide, 30 ft. deep, course N. E.
 Ascend steep N. slope through brush.
 71.59 Change to gradual N. slope
 72.00 Top of spur brs. E. and W. Descend
 79.75 Drain, course N. E. Ascend
 83.00 Top of ridge brs. E. and W.
 85.25 Small drain, course E.
 86.75 Small spur brs. E. and W.
 89.50 Drain, course E. Ascend
 96.50 Top of ridge brs. N. W. and S. E. Descend S. slope
 103.00 Drain, course S. E.
 107.00 Spur brs. E. and W.
 108.00 Drain, course E.
 112.00 Spur brs. N. E. and S. W.
 114.25 Drain, course N. E. Ascend steep N. E. slope
 115.34 C. C. of Secs. 1 and 2, T. 4 N., R. 17 W., brs.
 S. 56° 57' E. 42 lks. dist.
 Set a flag

May 9, 1905.

May 10:

115.34 Continue S. 33° 3' W. on a true line
 118.11 Top of ridge brs. E. and W. Descend S. W. slope
 124.50 Side hill drain, course S. W.
 125.50 Spur brs. N. E. and S. W.
 128.00 Enter level land
 131.50 Leave level land. Ascend steep N. E. slope
 138.68 Top of ridge brs. E. and W.
 143.70 Descend S. W. slope
 144.50 Small spur brs. N. E. and S. W.
 145.22 Drain, courses S. W.
 148.00 Enter Hasley's canyon brs. N. W. and S. E.
 168.00 Wash, course S. E.
 174.00 Road brs. N. W. and S. E.
 174.15 Set iron U. S. For. Res. Bdy. Post No. 169, 30 in.
 in the ground, raised mound of earth and stone 5 ft.
 base, 1 ft. high around post, marked
 No. 169 on S. side of cap
 1905 on S. side of cap on rim
 Reserve in S. W., N. W. and N. E. quadrants
 S. F. on W. side of cap on rim
 177.00 Leave Hasley's canyon, ascend N. E. slope
 186.50 Top of ridge brs. E. and W. Descend
 196.64 Enter valley brs. N. E. and S. W.
 198.00 Ascend steep N. W. slope
 201.00 Top of spur brs. N. E. and S. W. Descend steep S. slope
 204.25 Ravine 75 lks. wide 10 ft. deep, course S. E.
 204.54 Wire fence brs. N. W. and S. E.
 229.50 Top of ridge brs. E. and W. Descend S. E. slope
 232.70 Drain, course S. E.
 238.00 Spur brs. N. W. and S. E. Descend

242.25 Drain, course S. E.
 244.25 Drain, course E. Ascend
 247.00 Spur brs. E. and W.
 248.25 Drain, course E., ascend N. E. slope
 253.46 Top of spur brs. N. E. and S. W.
 259.50 Drain, course S. E.
 261.80 Ridge brs. E. and W.
 Set Iron U. S. For. Res. Bdy. Post No. 170, 30 in.
 in the ground, raise mound of earth and stone 5 ft.
 base, 1 ft. high around post marked
 No. 170 on S. side of cap
 1905 on S. side of cap on rim
 Reserve in S. W., N. W. and N. E. quadrants
 S. F. on E. side of cap on rim
 269.00 Drain, course S. W. Ascend steep N. W. slope
 270.66 Top of ridge brs. N. E. and S. W. Descend steep S. slope
 272.00 Drain, course S. E.
 274.00 Drain, course S. E.
 276.78 Low spur brs. N. W. and S. E.
 282.20 Wash 20 lks. wide, course S. W.
 284.25 Drain, course S. W.
 288.00 Small spur brs. E. and W.
 288.50 Small drain, course S. W.
 291.50 Small spur brs. S. W. and N. E.
 293.40 Drain, course S. W. Ascend steep N. W. slope
 297.00 Top of ridge brs. S. W. and N. E. Descend steep S. slope
 301.80 Drain, course W.
 303.50 Spur brs. E. and W.
 305.00 Drain, course W.
 307.15 Top of spur brs. E. and W. Descend steep S. W. slope
 311.00 Wash 50 lks. wide, course S. Thence over nearly level
 land.
 312.85 Vacant house brs. W. 3 chs. dist.
 322.05 Set iron U. S. For. Res. Bdy. Post No. 171, 30 in.
 in the ground, raise mound of earth 5 ft. base, 1 ft.
 high around post, dig pits 36x36x12 in. each side of
 post on line 8 ft. dist. marked
 No. 171 on S. side of cap
 1905 on S. side of cap on rim
 Reserve in S. W., N. W. and N. E. quadrants
 S. F. on S. side of cap on rim
 324.75 Drain, course E.
 328.50 Drain, course E. Ascend
 333.50 Top of spur brs. N. W. and S. E.
 335.00 Ravine 150 lks. wide, 20 ft. deep, course E.
 339.50 Ravine 20 lks. wide, 6 ft. deep, course E.
 342.00 Ravine 150 lks. wide, 30 ft. deep, course S. E.
 350.79 Ger. No. 11 San Francisco Rancho previously described
 Land mountainous and level
 Soil second and fourth rate. Timber dense growth of
 chemise and sagebrush.

May 10, 1905.

May 11:

At Cor. No. 11, San Francisco Rancho, at 8 a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc and $17^{\circ} 49'$ N. on the decl. arc and determine a meridian with the solar. Magnetic variation $15^{\circ} 15'$ E.

Thence I run S. $86^{\circ} 45'$ W. on a random line to cor.

No. 12, San Francisco Rancho.

111.21

At this point I set off $17^{\circ} 52'$ N. on the decl. arc and at 11h. 56' a.m., l.m.t. observe the sun on the meridian. The resulting lat. is $34^{\circ} 25'$ N. which is $14''$ less than the proper lat.

219.50

Boundary Post of Los Angeles and Ventura Counties brs. N. 135 lks. dist. which is a cedar post 4 in. sq., 5 ft. high above ground, firmly set and marked:

V. Co. on W. face, L.A. Co. on E. face.

Note: Post so badly burned that I could not distinguish its number.

242.00

Set a flag.

May 11, 1905.

May 12:

242.00

At this point, at 8 a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc and $18^{\circ} 5'$ N. on the decl. arc and determine a meridian with the solar.

Continue S. $86^{\circ} 45'$ W. on a random line

356.76

At this point I set off $18^{\circ} 7'$ N. on the decl. arc and at 11h. 56' 13" a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 25'$ N. which is about the proper lat.

490.70

Set a flag.

May 12, 1905.

May 13:

490.70

At this point, at 10 a.m., l.m.t., I set off $34^{\circ} 25'$ N. on the lat. arc and $18^{\circ} 21'$ N. on the decl. arc and determine a meridian with the solar

Thence I continue S. $86^{\circ} 45'$ W. on a random line

512.10

Cor. No. 4, Temescal Rancho brs. N. $3^{\circ} 15'$ W. 315 lks. dist. which is a redwood post (now) painted white, 4 in. sq., 18 in. above ground, firmly set and marked T. No. 4 on W. face, S. F. R. on S. face and C. G. P. on E. face.

542.36

At this point I set off $18^{\circ} 23'$ N. on the decl. arc and at 11h. 56' a.m., l.m.t., observe the sun on the meridian. The resulting lat. is $34^{\circ} 25'$ N. which is about the proper latitude.

625.72

Cor. No. 12, Rancho San Francisco brs. N. $3^{\circ} 15'$ W. 385 lks. dist. The old cor. being destroyed, I locate true point for cor. from two bearing trees.

A cottonwood 12 in. diam. bearing S. $77^{\circ} 30'$ W. 163 lks. dist. nearly washed out

A sycamore 10 in. diam. bearing S. $55^{\circ} 30'$ W. 290 lks. dist. in good state of preservation.

At the true point for cor. I set a granite stone $36 \times 14 \times 14$ in. in a mound of stone 7 ft. base, 30 in. high, for cor. No. 12, Rancho San Francisco, marked S. F. No. 12 on S. face.

I mark bearing objects as follows:

The North side of W. pier of railroad bridge brs. S. $64^{\circ} 15'$ W. 199 lks. dist. marked

B+O, S. F. No. 12

The middle pier of railroad bridge brs. S. 4° E.
231 lks. dist. marked B+O S. F. No. 12

I also remark old bearing trees

Note: This cor. is situated in the wash of the Piru
Creek

May 13, 1905

May 15:

I then return to Cor. No. 11, Thence I run S. 87°
6' W. on a true line to Cor. No. 12, San Francisco
Rancho over gradual S. slope, through sagebrush and
wood.

.06

Set iron U. S. Forest Res. Bdy. Post. No. 172, 30 in.
in the ground, raised mound of earth and stone 4 ft.
base, 1 ft. high around post, marked

No. 172 on S. side of cap

1905 on S. side of cap on rim

Reserve in N. W. and N. E. quadrants, also marked

W. C. in N. E. quadrant, S. F. No. 11 on S. side
of cap on rim

1/4 S. in N. W. quadrant

1.50	Drain, course S.
8.50	Change to steep W. slope
10.50	Drain, course S. Ascend steep E. slope
16.40	Wire fence brs. N. & S.
17.50	Top of spur brs. N. & S.
18.30	Descend W. slope
20.50	Foot of descent brs. N. & S. Thence over level land
25.00	House brs. N. 3.50 chs. dist.
26.50	Private road brs. N. & S.
30.20	Wash 50 lks. wide, of the San Martinez and Chiquito Canyon, course S.
39.25	Leave level land, ascend S. E. slope
49.00	Ravine 50 lks. wide, 20 ft. deep, course S.
50.20	Ravine 100 lks. wide, 50 ft. deep, course S. E.
55.50	Top of hill
64.35	Descend steep bluff brs. N. & S.
67.00	Ravine 100 lks. wide, 50 ft. deep, course S. Ascend gradual S. E. slope
76.34	Descend steep W. slope of San Martinez Grande Canyon
80.00	Bottom of canyon brs. N. & S.
81.50	Wash 150 lks. wide, course S.
83.70	Set iron U. S. Forest Res. Bdy. Post No. 173, 30 in. in the ground, raised mound of earth 5 ft. base, 1 ft. high around post, dig pits 36x36x12 in. W. of post on line, 8 ft. dist. E. pit impracticable marked
	No. 173 on S. side of cap
	1905 on S. side of cap on rim
	Reserve in N. E. and N. W. quadrants
	S. F. on S. side of cap on rim
	Ascend gradual S. E. slope
91.00	Drain, course S. E. Ascend Steep E. slope of canyon
100.34	W. bank of canyon brs. N. & S. Change to gradual E. slope
111.21	Top of ridge brs. N. W. and S. E.
113.67	Top of ridge brs. N. 20° W. and S. 20° E. Descend
120.00	Bottom of canyon course S. Ascend
130.19	Top of ridge brs. N. & S. Descend S. W. slope

136.40 Small drain, course S.
 139.17 Descend steep S. W. slope
 142.00 Ravine, 200 lks. wide, 50 ft. deep, course S. E. Ascend
 steep S. E. slope
 157.88 Set iron U. S. For. Res. Bdy. Post No. 174, 30 in.
 in the ground; raise mound of earth 5 ft. base,
 1 ft. high, around post; dig pits 36x36x12 in. E. and
 W. of post, on line, 8 ft. dist. marked:
 No. 174 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E. and N. W. quadrants
 S. F. on S. side of cap on rim
 158.12 Top of ridge brs. N. 10° W. and S. 10° E.
 164.90 Small drain, course S.
 171.00 Ravine 50 lks. wide, 20 ft. deep, course S. 20° W.
 179.00 Ravine, 50 lks. wide, 20 deep, course S.
 182.00 Ravine, 100 lks. wide, 30 ft. deep, course S.
 Ascend
 194.00 Top of spur brs. N. & S. Descend W. slope
 210.80 Small drain, course N. W.
 213.00 Drain, course S. W.
 218.00 Spur brs. N. & S. Descend
 219.50 Los Angeles and Ventura County line post
 Intersect corner
 221.00 Drain, course S.
 229.95 Small spur brs. N. & S.
 235.00 Head of small drain, course S. E.
 236.32 Small spur brs. N. W. and S. E.
 237.50 Drain, course S.
 241.51 Set iron U. S. For. Res. Bdy. Post No. 175, 30 in.
 in the ground; raise mound of earth 5 ft. base,
 1 ft. high around post; dig pits 36x36x12 ins. E.
 and W. of post on line 8 ft. dist., marked
 No. 175 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E. and N. W. quadrants
 S. F. on S. side of cap on rim

May 15, 1905.

May 16:
 244.50 Ravine 200 lks. wide, 50 ft. deep, course S.
 249.90 Spur brs. N. & S.
 255.20 Ravine 200 lks. wide, 50 ft. deep, course S. E.
 Ascend gradual S. E. slope
 265.66 Top of spur brs. N. E. and S. W.
 268.39 Descend steep S. W. slope
 272.00 Ravine 150 lks. wide, 30 ft. deep, course S. W.
 Thence over broken S. slope
 290.00 Drain, course S. E.
 292.03 Top of spur brs. N. & S.
 297.03 Descend gradual S. W. slope
 304.45 Set iron U. S. For. Res. Bdy. Post No. 176,
 30 in. in the ground; raise mound of earth and
 stone 5 ft. base, 1 ft. high around posts; pits
 impracticable, marked

No. 176 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E. and N. W. quadrants
 S. F. on S. side of cap on rim

305.25 Descend S. W. slope
 306.31 Change to steep S. W. slope
 311.30 Change to steep N. W. slope
 335.00 Drain, course S. W.
 336.00 Drain, course S. Foot of 700 foot descent
 337.33 Ascend S. E. slope
 341.00 Top of spur brs. S. E. and N. W. Descend S. W. slope
 344.00 Drain, course S. E. Ascend steep N. E. slope
 350.85 Top of ridge brs. N. W. and S. E.
 353.00 Ravine, 200 lks. wide, 50 ft. deep, course S.
 356.76 Top of ridge brs. N. W. and S. E.
 360.00 Drain, course S. W. Ascend
 370.00 Drain, course S. E.
 373.73 Top of ridge brs. N. W. and S. E.
 378.00 Drain, course S.
 385.39 Top of spur brs. N. E. and S. W.
 397.67 Top of ridge brs. N. & S.
 397.79 Set Iron U. S. For. Res. Bdy. Post No. 177, 30 in.
 in the ground, raise mound of earth 5 ft. base,
 1 ft. high, around post; pits impracticable,
 marked

No. 177 on S. side of cap;
 1905 on S. side of cap on rim
 RESERVE in N. E. and N. W. quadrants
 S. F. on S. side of cap on rim

399.54 Descend S. W. slope
 401.00 Ravine, 150 lks. wide, 40 ft. deep, course S. W.
 414.69 Top of spur brs. N. & S.
 420.00 Ravine, 200 lks. wide, 50 ft. deep, course S. Ascend
 426.96 Top of spur brs. N. W. and S. E.
 430.00 Ravine 200 lks. wide, 50 ft. deep, course S. E. Ascend
 443.96 Top of spur brs. N. & S.
 Set iron U. S. For. Res. Bdy. Post No. 178, 18 in.
 in the ground, raise mound of earth 8 ft. base, 2 ft.
 high around post; pits impracticable, marked

No. 178 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E. and N. W. quadrants
 S. F. on S. side of cap on rim

Descend steep S. W. slope
 456.00 Drain, course S. E.
 457.66 Top of low spur brs. N. & S.
 458.00 Small drain, course S. E.
 461.30 Top of low spur brs. N. & S. Descend
 462.30 Drain, course S. E.
 467.00 Drain, course S. E.
 470.30 Top of spur brs. N. & S.

May 16, 1905.

May 17:
 470.30 Continue S. $87^{\circ} 6'$ W. on a true line

475.00 Drain, course S. E. Thence over broken S. E. slope
 490.70 Top of ridge brs. N. & S., about 3.00 chs. N. of
 saddle divide. Descend.
 497.00 Drain, course N. W. Ascend N. E. slope.
 504.94 Dim stock trail brs. N. W. and S. E.
 509.94 Descend N. W. slope
 512.10 Intersect Corner No. 4 Temescal Rancho, previously
 described.
 523.00 Drain, course N. W.
 524.94 Over gradual N. W. slope
 540.50 Ravine 150 lks. wide, 40 ft. deep, course N.
 542.36 Top of spur brs. N. E. and S. W.
 Thence along broken N. slope
 565.08 Thence along top of ridge
 579.17 Descend gradual W. slope
 595.00 Drain, course N.
 601.77 Thence along top of ridge
 605.41 Descend steep S. W. slope
 624.00 East bank of Piru Creek brs. N. & S.
 624.75 Piru Creek, course S.
 625.72 Corner No. 12 San Francisco Rancho previously
 described
 Land mountainous
 Soil third rate
 Timber sagebrush

May 17, 1905.

- - - - -

May 18:

At corner No. 4, Temescal Rancho, at 10 a.m., l.m.t.,
 I set off $19^{\circ} 31'$ N. on decl. arc and $34^{\circ} 25'$ N. on
 lat. arc and determine a meridian with the solar.

Thence I run

N. $35^{\circ} 00'$ E. on a random line to corner No. 3,
 Temescal Rancho

Note: S. $87^{\circ} 06'$ W. 3.18 chs. appears to be the
 old original corner, which consists of a small mound
 of stone. I could not find post, but mound of stone
 is on the S. W. slope of drain, course N. W. This
 would agree with the original notes.

12.12 Post No. 13, which is a cedar post painted white
 4 in. sq. 18 in. above ground, firmly set and marked
 T. XII on W. face and O. G. P. on E. face. At this
 point I set off $19^{\circ} 32'$ N. on the decl. arc and at
 11h 56' 14" a.m., l.m.t., observe the sun on the
 meridian. The resulting latitude is $34^{\circ} 25'$ N., which
 is about the correct latitude.

128.20 Ranch corner brs. S. 55° E., 15 lks. dist., which
 is a redwood post, 4 in. sq., 2 ft. above ground,
 firmly set and marked for a line post only.

145.36 Continue N. 35° E. on a random line.
 Set a flag

May 18, 1905.

May 19:
 145.36 At this point at 9 a.m., l.m.t., I set off $34^{\circ} 26'$ N. on the latitude arc and $19^{\circ} 43'$ N. on the decl. arc, and determine a meridian with the solar.
 Continue N. 35° E. on a random line
 250.96 Post No. 11, ranch boundary brs. S. 55° E. 39 lks. dist., which is a pine post painted white, 4 in. sq., 18 in. above ground, firmly set and marked T. XI on W. face, C. G. P. on E. face.
 344.24 Corner No. 3, Temescal Rancho brs. S. $55^{\circ} 00'$ E., 52 lks. dist., which is a pine post painted white 4 in. sq., 1 ft. above ground, marked T. No. 3 on W. face, C. G. P. on E. face
 May 19, 1905.

May 20:
 I then return to corner No. 4, Temescal Rancho
 Thence I run
 N. $35^{\circ} 05'$ E. on a true line to corner No. 3, Temescal Rancho, through sagebrush
 .06 Set iron U. S. For. Res. Bdy. Post No. 179, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1-ft. high, marked
 No. 179 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in the N. E. quadrant
 TEM. No. 4 on west side of cap on rim
 S. F. on S. side of cap on rim
 W. C. in northeast quadrant
 .50 Descend steep N. slope
 5.00 Drain, course N. W.
 12.12 Post No. 13 Rancho boundary
 18.00 Descend steep N. W. slope
 22.00 Ravine 200 lks. wide, 60 ft. deep, course W.
 Ascend steep slide
 31.49 Top of spur brs. E. and W. Thence along steep W. slope
 47.25 Change to steep N. E. slope
 58.37 Foot of descent. Enter valley brs. N. E. and S. W.
 71.80 Ravine 50 lks. wide, 20 ft. deep, course S. W.
 72.37 Enter olive orchard
 75.20 Dry wash 10 lks. wide, course W.
 75.70 Enter orange orchard
 83.58 Set iron U. S. For. Res. Bdy. Post No. 180, 30 in. in the ground, raise mound of earth and stone, 5 ft. base, 1 ft. high, around post; dig pits each side of post on line $36 \times 36 \times 12$ in. 8 ft. dist. marked
 No. 180 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S. E., S. W. and N. E. quadrants
 TEM. on west side of cap on rim
 90.46 Irrigation ditch, course S. E.
 96.07 Private road brs. E. and W. House brs. E. 150 lks. dist. Leave orchards
 98.04 Top of spur brs. E. and W.
 110.00 Leave valley. Ascend S. W. slope
 128.20 Top of ridge brs. N. W. and S. E. Steep north slope through brush and liveoak timber

138.00 Foot of 300 ft. descent. Enter Holser Canyon.
 140.10 Wash, 50 lks. wide, course W.
 Road in wash brs. E. and W.
 141.36 Set iron U. S. For. Res. Bdy. Post No. 181, 30 in.
 in the ground; raise mound of earth and stone 5 ft.
 base, 1 ft. high, around post; dig pits 36x36x12 in.
 each side of post on line, 8 ft. dist., marked:
 No. 181 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S.W., S.E. and N.E. quadrants
 TEM. on W. side of cap on rim
 150.00 Ascend gradual S. W. slope
 156.10 Spur brs. N. W. and S. E.
 160.00 Small drain, course S. E.
 163.37 Small spur brs. N. W. and S. E.
 168.00 Ravine, 200 lks. wide, 30 ft. deep, course S. E.
 Ascend steep S. W. slope
 186.20 Change to gradual S. E. slope
 202.72 Top of ridge brs. E. and W. Descend steep N. slope
 218.00 Ravine 200 lks. wide, 50 ft. deep, course W.
 Ascend steep S. W. slope
 233.02 Change to gradual S. W. slope
 250.96 Post No. 11 of Ranch boundary
 251.05 Ridge brs. N. W. and S. E.
 251.42 Set iron U. S. For. Res. Bdy. Post No. 182, 30 in.
 in the ground; raise mound of earth and stone, 5 ft.
 base, 1 ft. high, around post; dig pits 36x36x12 in.
 each side of post on line, 8 ft. dist., marked:
 No. 182 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S.W., S.E. and N.E. quadrants
 TEM. on W. side of cap on rim
 254.05 Descend steep N. E. slope
 267.00 Drain, course N. E.
 274.00 Drain, course N. E.
 277.62 Top of spur brs. E. and W.
 Thence over broken steep E. slope
 285.04 Descend steep N. slope
 300.20 Top of spur brs. E. and W.
 Descend into Lechler Canyon
 304.61 Foot of descent. Wash 50 lks. wide, course N. W.
 305.61 Set iron Forest Reserve Boundary Post No. 183,
 30 in. in the ground, raise mound of earth and
 stone, 5 ft. base, 1 ft. high, around post, marked:
 No. 183 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S.W., S.E. and N.E. quadrants
 TEM. on W. side of cap on rim
 308.00 Spur brs. E. and W.
 310.80 Wash brs. from N. E. to S. W.
 324.44 Top of small spur brs. E. and W.
 House brs. S. 55° E. about 5.00 chs. dist.
 329.00 Small drain, course S. E. Ascend steep S. W. slope
 over bluff
 344.24 Top of ridge brs. N. W. and S. E.
 Corner No. 3 Temescal Rancho previously described
 Land mountainous
 Soil third and fourth rate

Timber chemise and sagebrush, some oak trees in canyons
Note: All improvements are made to this line, orchards
fence and buildings.

May 20, 1905

May 23:

At corner No. 3, Temescal Rancho, at 10 a.m., l.m.t.,
I set off $34^{\circ} 28'$ N. on the latitude arc and $20^{\circ} 33'$
N. on the decl. arc and determine a meridian with the
solar.

Thence I run

N. $44^{\circ} 22'$ E. on a random line to cor. No. 2, Tem-
escal Rancho

63.49

Intersect G. C. to Secs. 31 and 36, T. 5 N., R. 17
and 18 W., which is a redwood post 4 in. sq., 1 ft.
above mound of stone, firmly set and marked G. C.

on N. face

T. 5 N., S. 36 on N. E. face

R. 17 W. on S. E. face

R. 18 W. TEM on S. W. face

S. 31 on N. W. face and witnessed by one bearing
tree in good state of preservation

121.19

At this point I set off $20^{\circ} 34'$ N. on the decl. arc
and at 11h 56' 30" a.m., l.m.t., observe the sun on
the meridian. The resulting lat. is $34^{\circ} 29'$ N. which
is about the proper latitude.

246.22

Set a flag

May 23, 1905

May 24:

246.22

At this point, at 8 a.m., l.m.t., I set off $34^{\circ} 30'$ N.
on lat. arc and $20^{\circ} 42'$ N. on the decl. arc and deter-
mine a meridian with the solar

Continue N. $44^{\circ} 22'$ E. on a random line

333.79

At this point I set off $20^{\circ} 45'$ N. on decl. arc and
at 11h. 56' 34" a.m., l.m.t., observe the sun on the
meridian. The resulting latitude is $34^{\circ} 31'$ N., which
is about the proper latitude.

380.89

Corner No. 2, Temescal Rancho, brs. S. E. 2 lks.
dist., which is a pine post painted white 4 in.
sq., 18 in. above mound of stone, 2 ft. base, 1 ft.
high, firmly set and marked:

T. No. 2 on S. W. face

G. G. P. on N. W. face, two dim pits on each
line. Portion of old post in mound with new
corner. I enlarge mound of stone around post
to 3 ft. base, 1 ft. high.

May 24, 1905.

May 25:

I return to corner No. 3, Temescal Rancho

Thence I run

N. 44° 22' E. on a true line to Cor. No. 2, over gradual N.E. slope, through sagebrush.

.06 Set iron U. S. Forest Reserve Boundary Post No. 184, 30 ins. in the ground; raise mound of earth and stone, 5 ft. base, 1 ft. high, around post; dig pits 36x36x12 ins. on each line, 8 ft. dist., marked:-
 No. 184 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S.E., N.E. and N.W. quadrants
 W. C. in N. E. quadrant
 TEM. No. 3 on W. side of cap on rim

19.24 Descend steep N. E. slope
 24.00 Drain, course N.
 26.66 Top of small spur brs. N. and S.
 29.05 Enter Santa Felicia Canyon
 30.05 Set iron U. S. Forest Reserve Boundary Post No. 185, 30 ins. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked:
 No. 185 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in S. E. and N. E. quadrants
 TEM. on W. side of cap on rim

30.15 Private road brs. E. and W.
 35.60 A house brs. E. about 5.00 chs. dist.
 Leave valley, ascend S.W. slope.
 55.74 Top of ridge brs. E. and W.
 Descend steep N. W. slope.
 63.49 Intersect G. C. to secs. 31 and 36, T. 5 N., Rgs. 17 and 18 W., previously described.
 64.25 Drain, course W. Ascend gradual W. slope.
 66.86 Change to steep W. slope.
 70.50 Descend N. W. slope.
 75.00 Ravine, 150 lks. wide, 20 ft. deep, course W.
 Ascend.
 80.80 Top of small spur brs. E. and W. Descend.
 82.00 Drain, course W. Ascend.
 85.35 Top of spur brs. E. and W.
 90.00 Small drain, course W.
 102.71 Spur brs. N. E. and S. W. Thence along steep W. slope of Santa Felicia Canyon.
 121.19 Set iron U. S. Forest Reserve Boundary Post No. 186, 30 ins. in the ground; raise mound of earth 5 ft. base, 1 ft. high around post, too steep on either side for pits, marked:
 No. 186 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E., S. E. and S. W. quadrants
 TEM. on W. side of cap on rim
 Descend steep N. E. slope
 125.00 Drain, course S.W. Ascend gradual S.W. slope.
 140.00 Top of ridge brs. E. and W.
 141.29 Wire fence brs. E. and W.
 141.79 Descend N. slope.
 149.79 Wash, 30 lks. wide, course W. Ascend gradual S. slope.
 158.46 Change to S. E. slope.
 172.40 Top of ridge brs. E. and W. Descend.
 177.00 Ravine 150 lks. wide, 20 ft. deep, course W.
 Ascend gradual S. slope.
 202.70 Top of ridge brs. E. and W.
 202.75 Set iron U. S. Forest Reserve Boundary Post No. 187, 30 ins. in the ground; raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked

No. 187 on S. side of cap

1905 on S. side of cap on rim
 RESERVE in N.E., S.E. and S.W. quadrants
 TEM. on W. side of cap on rim
 209.87 Descend steep N. slope
 212.00 Drain, course N. W. Thence over gradual W. slope
 232.21 Descend steep N. slope
 235.00 Ravine, 200 lks. wide, 50 ft. deep, course W.
 Ascend S. W. slope of round hill
 246.22 Top of hill. Descend steep N. slope of same
 256.00 Ravine, 150 lks. wide, 40 ft. deep, course W.
 262.02 Top of spur brs. E. and W. Descend
 267.00 Wash 20 lks. wide, course W.
 Ascend steep S. W. slope
 282.94 Top of hill brs. E. and W.
 Set iron U. S. Forest Res. Bdy. Post No. 186,
 30 in. in the ground; raise mound of earth, 5 ft.
 base, 1 ft. high, around post; dig pit N. 44° 22' E.
 of post 36x36x12 in. 8 ft. dist. S. W. pit imprac-
 ticable; marked
 No. 188 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E., S. E. and S. W. quadrants
 TEM. on W. side of cap on rim
 283.55 Descend N. E. slope
 292.55 Ravine, 200 lks. wide, 50 ft. deep, course W.
 Ascend steep S. W. slope, through sagebrush
 301.73 Top of spur brs. E. and W. Descend N. W. slope
 307.00 Ravine, 150 lks. wide, 30 ft. deep, course W. Ascend
 313.85 Top of spur brs. E. and W. Descend
 318.00 Drain, course W. Ascend
 324.46 Small spur brs. E. and W.
 326.00 Small drain, course W.
 330.00 Small spur brs. E. and W.
 333.00 Drain, course S. W. Ascend
 337.79 Top of spur brs. E. and W.
 Descend gradual N. W. slope
 344.15 Set iron U. S. Forest Res. Bdy. Post No. 189, 30 in.
 in the ground; raise mound of earth and stone 5 ft.
 base, 1 ft. high, around post, marked:
 No. 189 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E., S. E. and S. W. quadrants
 TEM. on W. side of cap on rim
 344.25 Trail brs. N. 50° E. and S. 50° W.
 346.00 Dry wash, 10 lks. wide. Bottom of Santa Felicia
 Canyon, course S. 50° W. Ascend gradual S. slope
 352.64 Top of spur brs. N. W. and S. E.
 355.00 Drain, course S. E. Ascend
 368.40 Enter thick growth of chemise brush brs. E. and W.
 Thence over gradual S. slope of round hill
 380.59 Top of hill
 380.89 Cor. No. 2, Temescal Rancho, previously described
 Land mountainous
 Soil third and fourth rate
 Timber, some oak and chemise

May 25, 1905

Boundary of the San Gabriel National Forest.

May 26:

At cor. No. 2, Temescal Rancho, at 9 a.m., l.m.t.,
I set off $34^{\circ}31'N$ on lat. arc and $21^{\circ}6'N$ on the decl.
arc and determine a meridian with the solar

Thence I run

$N.33^{\circ}00'W$ on a random line to Corner No. 1

Temescal Rancho

33.91

At this point I set off $21^{\circ}7'N$ on the decl. arc, and
at 11h $56'46''$ observe the sun on the meridian. The
resulting lat. is $34^{\circ}31'N$, which is about $20''$ less
than the proper latitude.

174.09

Corner No. 1, Temescal Rancho brs. $N. 57^{\circ}E.$, 149 lks.
dist., which is a pine post painted white, $\frac{1}{4}$ in. sq.,
 $1\frac{1}{2}$ ft. high, above ground, firmly set and marked
T. No. 1 on S. face, C. G. P. on N. face

May 26, 1905

May 27:

I then return to Cor. T. No. 2

Thence I run

$N. 32^{\circ}31'W$ on a true line, over N.E. slope of
hill, through dense brush

.06

Set iron U. S. For. Res. Bdy. Post No. 190, 30 in. in
the ground; raise mound of earth and stone 5 ft. base,
1 ft. high around post; dig pits $36 \times 36 \times 12$ in. N. W. and
S. W. of corner on each line, 8 ft. dist., marked:

No. 190 on S. side of cap

1905 on S. side of cap on rim

RESERVE in S.W., S.E. and N.E. and N.W. qdrnts.

W.C. in N.E. quadrant

TEM No. 2 on S. side of cap on rim

24.00

Ravine, 200 lks. wide, 30 ft. deep, course E.

27.85

Spur brs. E. and W.

30.00

Ravine, 200 lks. wide, 40 ft. deep, course N. E.

37.50

Ravine, 200 lks. wide, 50 ft. deep, course N. E.

Ascend steep S.E. slope

49.67

Top of round hill, thence over steep broken E. slope
on W. side of Paelomis Canyon

67.85

Spur brs. N.W. and S.E. Descend steep N.W. slope

70.00

Ravine 200 lks. wide, 3 ft. deep, course N. E.

74.00

Pack trail brs. E. and W. on top of spur

74.10

Set iron U. S. For. Res. Bdy. Post No. 191 30 in. in
the ground; raise mound of earth and stone 5 ft. base,
1 ft. high, around post, marked:

No. 191 on S. side of cap

1905 on S. side of cap on rim

RESERVE in S. E., N.E. and N.W. quadrants

TEM on S.W. side of cap on rim

100.00

Thence over broken and rocky slope of Paelomis Canyon

Bottom of canyon, course $N. 40^{\circ}E.$

Thence along broken banks of same

Boundary of the San Gabriel National Forest.

160.00 Bottom of canyon, course N. 40° E. Ascend steep S. slope
174.09 Corner No. 1, Temescal Rancho, on divide, previously
described.
Land mountainous and broken
Soil 4th rate
Timber dense brush of chemise and manzanita

May 27, 1905

May 29:

At corner No. 1, Temescal Rancho at 10 a.m., l.m.t.,
I set off 34° 33' N. on lat. arc and
21° 36' N. on the decl. arc and determine a meridian
with the solar

Thence I run S. 35° 35' W. on a true line to Cor.
No. 7, Temescal Rancho

.06

Note: Cor. No. 7, in sight, through dense brush
Set iron U. S. For. Res. Bdy. Post No. 192, 30 in. in
the ground, raise mound of earth 5 ft. base, 1 ft. high
around post; dig pits S. W. of post on line 36x36x12 in.
8 ft. dist. S.E. pit impracticable, marked

No. 192 on S. side of cap

1905 on S. side of cap on rim

RESERVE in S. E., N. E., N. W. and S. W. quadrants

TEM on S. side of cap on rim

W. C. in N. E. quadrant

Descend gradual S. W. slope along top of spur
bet. the heads of Pelonis and Devil Canyon.

4.00

Change to steep N. E. slope

6.00

Change to S. W. slope. Pack trail brs. N. & S.

21.81

Descend steep S. W. slope, into canyon

24.50

Dry wash 20 lks. wide, course S. Ascend gradual N. E.
slope

At this point I set off 21° 37' N. on the decl. arc
and at 11h 57' a.m., l.m.t., observe the sun on the
meridian.

The resulting lat. is 34° 33' N. which is about 15"
greater than the proper lat.

41.81

Top of spur brs. E. and W.

44.00

Ravine 2 chs. wide, 30 ft. deep, course E.

48.34

Top of spur brs. E. and W. Thence along bank of canyon,
over broken and brushy ridges.

58.95

Top of low spur brs. N. W. and S. E.

Thence along E. slope

60.00

Ravine 200 lks. wide, 50 ft. deep, course E.

78.25

Top of spur brs. N.E. and S.E.

79.61

Descend S. E. slope

82.00

Bottom of canyon, small stream course S.W.

Boundary of the San Gabriel National Forest.

82.50 Trail, course N. E. and S. W.
 82.79 Set iron U. S. For. Res. Bdy. Post No. 193, 30 in.
 in the ground; raised mound of earth and stone 5 ft.
 base, 1 ft. high around post, marked
 No. 193 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E., N. W. and S. W. quadrants
 TEM on E. side of cap on rim

Ascend

May 29, 1905

May 30:

82.79 Ascend gradual N. W. slope
 At this point, at 9 a.m., l.m.t., I set off $34^{\circ} 32'$
 N. on the lat. arc and $21^{\circ} 45'$ N. on the decl. arc
 and determine a meridian with the solar
 90.37 Spur brs. E. and W.
 97.64 Top of small spur brs. E. and W.
 100.00 Drain, course W.
 104.17 Top of spur brs. E. and W.
 120.23 Top of spur brs. E. and W.
 122.00 Drain, course W.
 125.53 Top of spur brs. E. and W. Descend
 128.00 Drain, course W.
 132.65 Top of spur brs. E. and W.
 134.00 Drain, course W.
 136.44 Spur brs. E. and W.
 137.50 Descend steep S. W. slope
 145.96 Set iron U. S. For. Res. Bdy. Post No. 194, 30 in. in
 the ground, raise mound of earth and stone 5 ft. base,
 1 ft. high around post, marked
 No. 194 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N.E., N.W. and S.W. quadrants,
 TEM on E. side of cap on rim from which
 A Live Oak 10 in. diam. brs. N. 9° W. 67 lks. dist.
 marked 194 B. T.
 146.10 Pack trail brs. N.W. and S.E.
 146.30 Dry wash 20 lks. wide, course S.W.
 150.24 Spur brs. N.W. and S.E.
 152.80 Descend
 155.80 Same dry wash 20 lks. wide, course S.W.
 156.00 Same trail brs. N.E. and S.W. Ascend steep N. slope of
 round hill
 174.62 Change to N.W. slope
 181.26 Change to gradual N. slope
 183.08 Top of hill. Intersect cor. No. 7, Temescal Rancho, which
 is a pine post, painted white 4 in. sq. 1 ft. above ground,
 firmly set and marked T. No. 7 on S. E. face; C.G.P. on
 N.E. face.
 Land mountainous, soil third and fourth rate
 Timber oak, sycamore and cottonwood along canyon.
 Dense brush of chemise, manzanita and ironwood.

May 30, 1905.

May 31:

At Cor. No. 7, Temescal Rancho, at 9 a.m., l.m.t.,
I set off $34^{\circ} 31'$ N. on the lat. arc and $21^{\circ} 54'$ N.
on the decl. arc and determine a meridian with the solar
Thence I run S. $53^{\circ} 12'$ W. on a random line to Cor.

No. 8, Temescal Rancho

84.12

At this point I set off $21^{\circ} 55'$ N. on the decl. arc
and at 11h. $57' 24''$ a.m., l.m.t., observe the sun on
the meridian. The resulting lat. is $34^{\circ} 30'$ N. which
is about $20''$ less than the proper lat.

155.38

Post No. 10, Ranch Line Bdy. Post brs. N. $36^{\circ} 48'$ W.
81 lks. dist. which is a pine post, painted white,
4 in. sq., 18 in. above ground, firmly set and marked
T. No. 10 on S. E. face;

186.54

Set a flag.

May 31, 1905.

June 1, 1905:

186.54

At this point, at 8 a.m., l.m.t., I set off $22^{\circ} 2'$ N.
on decl. arc and $34^{\circ} 30'$ N. on lat. arc and determine
a meridian with the solar

Continue S. $53^{\circ} 12'$ W. on a random line

341.63

Cor. No. 6, Temescal Rancho brs. N. $36^{\circ} 48'$ W. 178 lks.
dist. which is a pine post, painted white, 4 in. sq.,
18 in. above ground, firmly set and marked T. No. 6
on E. face; G. C. P. on N. face and witnessed by a
Black Walnut 15 in. in diam. bearing S. 33° E. 112 lks.
dist. in good state of preservation

June 1, 1905.

June 2:

I return to Cor. No. 7, Temescal Rancho,
Thence I run S. $53^{\circ} 30'$ W. on a true line to cor.
No. 6, over gradual S. W. slope through sagebrush
Set iron U. S. For. Res. Bdy. Post No. 195, 30 in.
in the ground, raise mound of earth 5 ft. base, 1 ft.
high around post, dig pits $36 \times 36 \times 12$ in. N. W. and S. E.
of post on each line, 8 ft. dist., marked:

.06

No. 195 on S. side of cap

1905 on S. side of cap on rim

RESERVE in the N.E., N.W. and S.W. quadrants

W. C. in the N. E. quadrant

TEM. No. 7 on the E. side of cap on rim

1.36

Descend gradual S. W. slope

3.10

Change to steep S. W. slope

27.00

Ravine 200 lks. wide, 20 ft. deep, course W. Ascend
gradual S. W. slope

33.37

Small spur brs. N. W. and S. E.

34.24

Descend steep S. W. slope into Devils Canyon

37.93

Set iron U. S. For. Res. Bdy. Post No. 196, 30 in.
in the ground, raise mound of earth and stone 5 ft.
base, 1 ft. high around post, marked

No. 196 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N.E., N.W. and S.W. quadrants
 TEM. on S. E. side of cap on rim
 38.00 Trail brs. N. & S.
 38.40 Wash 40 lks. wide, course S. Ascend steep N. E.
 slope of Devils Canyon
 39.28 Small spur brs. N. W. and S. E.
 43.65 Top of spur brs. N. W. and S. E.
 45.00 Ravine 200 lks. wide, 50 ft. deep, course S. E.
 Ascend steep N. E. slope
 50.87 Top of spur brs. N. W. and S. E. Thence over gradual
 S. E. slope
 72.08 Top of spur brs. N. W. and S. E.
 73.00 Drain, course S. E.
 75.00 Ravine 100 lks. wide, 20 ft. deep, course S. E.
 Ascend steep N. E. slope
 82.99 Top of ridge brs. N. W. and S. E.
 84.12 Descend S. W. slope
 88.00 Drain, course S. E.
 90.28 Low spur brs. N. W. and S. E. Descend steep S. E. slope
 100.00 Ravine 300 lks. wide, 50 ft. deep, course S. E.
 107.00 Drain, course S. E.
 110.90 Trail brs. N. W. and S. E.
 111.05 Set iron U. S. For. Res. Bdy. Post No. 197, 30 in.
 in the ground, raised mound of earth and stone 5 ft.
 base, 1 ft. high around post, marked
 No. 197 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N. E., N. W. and S. W. quadrants
 TEM. on S. E. side of cap on rim
 113.00 Drain, course E. Ascend N. E. slope
 124.69 Top of spur brs. N. E. and S. W.
 130.91 Brushy spur brs. N. E. and S. W.
 133.00 Same drain, course N. E. Ascend N. E. slope
 142.55 Ridge brs. N. W. and S. E. Descend steep S. W. slope
 150.00 Drain, course S. E.
 155.38 Top of spur brs. N. W. and S. E.
 Intersect cor. No. 10, Temescal Rancho line post
 Descend steep S. W. slope
 160.00 Drain, course S. E.
 165.50 Top of spur brs. E. and W. Descend S. W. slope
 175.00 Drain, course S. E. Ascend
 180.78 Top of spur brs. N. W. and S. E.
 186.54 Descend S. W. slope
 186.54 Set iron U. S. For. Res. Bdy. Post No. 198, 30 in.
 in the ground, raised mound of earth and stone 5 ft.
 base, 1 ft. high around post, marked
 No. 198 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N.E., N.W. and S.W. quadrants
 TEM. on S. E. side of cap on rim

200.00	Ravine 150 lks. wide, 20 ft. deep, course S. E.
203.72	Thence over broken S. E. slope of mountains
236.76	Top of ridge brs. N. W. and S. E. Descend steep S. W. slope into Piru canyon
260.00	Foot of descent. Enter wash of Piru river
273.00	Piru river 50 lks. wide, course S. Low banks
286.00	Leave wash of river
289.80	Road bears N. & S.
291.90	Set iron U. S. For. Res. Bdy. Post No. 199, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked
	No. 199 on S. side of cap
	1905 on S. side of cap on rim
	RESERVE in N.E., N.W. and S.W. quadrants
	TEM. on S. E. side of cap on rim
297.00	Leave Piru Valley brs. N. & S. Ascend
299.69	Top of low spur brs. N. & S.
301.00	Ravine 30 lks. wide, 10 ft. deep, course S. E.
304.00	Wire fence brs. E. and S. W.
312.99	Enter cultivated land. A row of trees about 20 ft. dist. brs. N. 53° 30' E. and S. 53° 30' W.
	Top of spur brs. N. W. and S. E.
	Descend.
315.50	Ravine 150 lks. wide, 30 ft. deep, course S. E.
	Ascend steep N. E. slope
322.08	Spur brs. N. W. and S. E. Descend S. W. slope
327.00	Drain, course S. E.
332.69	Top of spur brs. N. W. and S. E.
341.63	Cor. No. 6, Temescal Rancho previously described
	Land mountainous. Soil third rate
	Timber liveoak, sycamore, cottonwood and black walnut
	along canyon. Chemise and ironwood brush
	Formation sandstone

June 2, 1905.

June 3:

At Cor. No. 6, Temescal Rancho, at 8 a.m., l.m.t., I set off 34° 29' N. on the lat. arc and 22° 18' N. on the decl. arc and determine a meridian with the solar.

1.59	Thence I run S. 16° 15' W. on a random line
	Intersect ranch line boundary post which is a pine post painted white, 4 in. sq., 18 in. above the ground, firmly set and marked T. No. 8 on E. face, C. G. P. on N. face
84.60	Intersect Post No. 7, Ranch Line Bdy., which is a redwood post painted white, 4 in. sq., 18 in. above the ground, firmly set and marked Ranch Line on N. E. face and No. 7 on S. E. face. I find no trace of C. G. for fracl. Secs. 4 and 33
	I then return to Cor. No. 6, Temescal Rancho
	Thence I run S. 16° 15' W. on a true line to Post No. 7, over N. E. slope

.06 Set Iron U. S. For. Res. Bdy. Post No. 200, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post; dig pits 36x36x12 in. N. E. and S. W. of post on each line, 8 ft. dist., marked
 No. 200 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N.E., N.W. and S.W. quadrants
 TEM. on S. side of cap on rim
 W. O. in the N. E. quadrant

1.59 Top of ridge brs. N. W. and S. E. Branch line post No. 5.
 Descend gradual S. slope

4.34 Change to steep S. slope

22.80 Reasoner Creek 20 lks. wide, course E.

23.80 Set iron U. S. For. Res. Bdy. Post No. 201, 30 in. in the ground, raise mound of earth and stone 5 ft. base, 1 ft. high around post, marked
 No. 201 on S. side of cap
 1905 on S. side of cap on rim
 RESERVE in N.E., N.W. and S.W. quadrants
 TEM. on E. side of cap on rim

23.90 Road brs. E. and W.
 Enter cultivated ground and ascend gradual N. slope

25.00 Vacant house brs. W. 2 chs.

48.00 Drain, course N. E. Enter timber and brush

55.00 Drain, course N. E. Ascend steep N. E. slope
 Through timber and brush

76.70 Leave timber brs. E. and W.

84.60 Post No. 7 Ranch Line Bdy. Land mountainous and level. Soil second and third rate
 Timber liveoak, black walnut, sycamore, ash and dense underbrush.

June 3, 1905

Here the New Forest Boundary continues on down the Tenessee Rancho Boundary, and as the Old Geological Survey leaves it at above point, it will be necessary to secure the General Land Office notes for the balance of the new forest boundary. See notes following, copied from the General Land Office Vols.