

FIELD NOTES
OF
Resurvey of Exterior Boundaries of Part of
Township 5 North, Range 11 West
S. B. M.

Copied from certified photographic copy
received from General Land Office _____.

					R.IIW.	R.IOW.			
					1	6			
					12	7			
18	17	16	15	14	13	18	17		
19	20	21	22	23	24	19	20	T.5N.	
30	29	28	27	26	25	30	29		

_____ Surveyed May, 1903 by Friel

9212

RESURVEY OF EXTERIOR BOUNDARIES OF PART OF
T. 5 N., R. 11 W., S.B.M.

Survey commenced May 11, 1903, and executed with a W. and L.E. Curley light mountain transit No. _____ with solar attachment.

The horizontal limb is provided with two double verniers placed opposite each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined on the true meridian at San Francisco, California, found correct, and was approved by the Surveyor General for California.

I examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus by comparing its indications, resulting from solar observations made during A.M. and P.M. hours, with a meridian determined by observations on Polaris, I proceed as follows:-

Near the cor. of Secs. 13, 14, 23 and 24, T. 5 N., R. 11 W., S.B.M., latitude $34^{\circ}34'$ N., longitude $118^{\circ}00'$ W. I set off $34^{\circ}31'$ N. on the latitude arc; $17^{\circ}46'$ on the decl. arc; and at 3 P.M., standard time, determine with the solar a meridian, and mark a point thereof on a stake driven firmly in the ground 5 chs. N. of my station.

May 11, 1903.

May 12, 1903

At 4 h 11 m A.M., May 12, 1903, I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a stake driven in the ground, 5 chs. N. of my station.

At 8 A.M., Standard time, I lay off the azimuth of Polaris $1^{\circ}28'$ to the west, and mark the meridian thus determined, by a nail driven in the stake set May 11th, on which the meridian falls 0.5 ins. E. of the mark determined by the solar.

At 9 A.M., Standard time, I set off $34^{\circ}31'$ on the lat. arc., $17^{\circ}58'$ on decl. arc; and mark a point in the meridian determined with the solar, by a nail driven in the stake set May 11th, 5 chs. N. of my station; this mark falls 0.3 ins. E. of the meridian established by the Polaris observation.

The solar apparatus, by P.M. and A.M. observations,

RESURVEY OF EXTERIOR BOUNDARIES OF PART OF
T. 5 N., R. 11 W., S. B. M.

defines position for meridians respectively about $0^{\circ}26''$ W. and $0^{\circ}16''$ E. of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 8 A.M. is N. $15^{\circ}00'$ W., the angle thus determined gives the magnetic decl. $15^{\circ}00'$ East.

May 12, 1903.

May 14, 1903.

From the cor. of Secs. 13, 18, 19 and 24, R. 10 & 11 W. (W.M. Holmes) marked and witnessed as described by the Surveyor General.

40.13 South on a random line along the E. bdy. of Sec. 24.
To the 1-4 sec. cor., marked and witnessed as described by the Surveyor General.

At this point at 9 A.M., I set off $34^{\circ}30'$ on the lat. arc., $18^{\circ}28'$ N. on the decl. arc, and determine a true meridian with the solar.

Thence I run-
North on a true line bet. Secs. 19 and 24, descending.

11.50 Road, course E. and W.
40.13 The cor. of Secs. 13, 18, 19 and 24.
From the 1-4 sec. cor., I continue
South on a random line.
40.13 To a point 12 lks. E. of cor. No. 47 of the San Gabriel
Forest Reserve, cor. of Secs. 19, 24, 25 and 30,
marked and witnessed as described by the Surveyor
General

Thence I run-
N. $0^{\circ}10'$ E. on a true line bet. Secs. 19 and 24.

3.00 Top of ridge, course E. and W. and descend.
20.00 Ravine, course E. and ascend.
26.00 Top of spur, course E. and W. and descend.
32.00 Base of spur.
40.13 The 1-4 sec. cor.
Land, mountainous and level.
Soil, 3d. rate.
Mountainous land, 32. 00 chs.

May 14, 1903.

May 18; at the closing cor. of Secs. 19 and 30, R. 11 W. (W.M. Holme) which is also cor. No. 45 of the San Gabriel Forest Reserve, marked and witnessed as described by the Surveyor-General, I set off $19^{\circ}25'$ N. on the decl. arc; and at

RESURVEY OF EXTERIOR BOUNDARIES OF PART OF
T. 5 N., R. 11 W., S.B.M.

noon, observe the sun on the meridian; the resulting
lat. is $34^{\circ}29'$.

- Thence I run-
- 19.06 north on a random line along W. bdy. of Sec. 19.
To a point 21 lks. W. of the 1-4 sec. cor. on the E.
bdy. of Sec. 24, T. 5 N., R. 12 W., marked and wit-
nessed as described by the Surveyor General.
- 58.69 To a point 44 lks. W. of the cor. of Secs. 13 and 24,
T. 5 N., R. 12 W., marked and witnessed as described
by the Surveyor General.
- 78.83 To a point 41 lks. W. of an old mound and pits, cor. of
Secs. 18 and 19, to re-establish same I set a pine
post 3 ft. long, 4 ins. sq., with marked stone 24
ins. in the ground, in the old mound, for cor. of
Secs. 18 and 19, marked-

T. 5 N. S. 18 on N.E. and
R. 11 W. S. 19 of S.E. face, with 3 notches on
N. and S. edges; rebuild old mound, and raise
a mound of rock, $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

- Thence I run-
- 20.14 S. $0^{\circ}05'$ E. on a true line on the W. bdy. of Sec. 19,
over rough, mountainous land.
To the cor. of Secs. 13 and 24, previously described.

- Thence I run-
- 19.86 S. $0^{\circ}20'$ W. on a true line on the W. bdy. of Sec. 19.
After diligent search, find old stake lying on the
ground but no mound or pits.
Set a granite ^{stone} $18 \times 8 \times 6$ ins., 12 ins. in the
ground, for 1-4 sec. cor. on W. bdy. of Sec. 19,
marked 1-4 on W. face, and raise a mound of rock $2\frac{1}{2}$
ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 39.63 To the 1-4 sec. cor. on the E. bdy. of Sec. 24, previ-
ously described.

- Thence I run-
- 19.06 S. $0^{\circ}38'$ W. on a true line on the West bdy. of Sec. 19,
To the closing cor. of Secs. 19 and 30.
Land, for the last mile, mountainous.
Soil, 3rd rate.
Mountainous land, 78.83 chs.

May 18, 1903.

GENERAL DESCRIPTION.

The west boundary of Sec. 19, T. 5 N., R. 11 W.,
S.B.M., is rough and mountainous.

The east boundary of Sec. 24, is mountainous,
and sloping land.

Legrand Friel,
U. S. Deputy Surveyor.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

Survey commenced May 11, 1903, and executed with a W. and L.E. Gurley light mountain transit No. _____ with solar attachment. The horizontal limb is provided with two double verniers placed opposite each other; reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined on the true meridian at San Francisco, California, found correct and was approved by the Surveyor General for California.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during A.M. and P.M. hours, with a meridian determined by observations on Polaris; I proceed as follows:-

Near the cor. of Secs. 13, 14, 23 and 24, T. 5 N., R. 11 W. S.B.M., latitude $34^{\circ}31'$ N., longitude $118^{\circ}00'$ W., I set off $34^{\circ}31'$ on the latitude arc; $17^{\circ}46'$ on the decl. arc; and at 3 P.M., standard time, determine with the solar a meridian, and mark a point thereof on a stake, driven firmly in the ground, 5 chs. N. of my station.

May 11, 1903.

May 12, 1903.

At 4 h 11 m A.M., May 12, 1903, I observe Polaris at eastern elongation, in accordance with manual of Instructions, and mark a point in the line thus determined, on a stake driven in the ground, 5 chs. N. of my station.

At 8 h A.M., standard time, I lay off the azimuth of Polaris $1^{\circ}26'$ to the W. and mark the meridian thus determined by a nail driven in the stake set May 11th on which the meridian falls 0.5 ins. E. of the mark determined by the solar.

At 9 A.M., Standard time, I set off $34^{\circ}31'$ on the lat. arc. $17^{\circ}58'$ on the decl. arc; and mark a point in the meridian determined with the solar by a nail driven in the stake set May 11th, 5 chs. N. of my station; this mark falls 0.3 ins. E. of the meridian established by the Polaris observation. The solar apparatus, by P.M. and A.M. observations, defines positions for meridians respectively about $0^{\circ}26''$ W. and $0^{\circ}16''$ E. of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The map bearing of the true meridian at 8 A.M. is N. $15^{\circ}00'$ W. the angles thus determined gives the mag. decl. $15^{\circ}00'$ E.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

From the cor. of Secs. 13, 18, 19 and 24, T. 5 N., Rs. 10 and 11 W., S.B.M., marked and witnessed as described by the Surveyor General.

I run-

West on a random line bet. Secs. 13 and 24, 14 and 23, and 15 and 22, searching diligently at each 40 chs. and at point for witness cor. and fail to find any cors., as described. At

240.81 To a point 91 lks. N. of an old mound and stake; which I remark by setting a redwood post 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, marked

T. 5 N. S. 15 on N.E.
R. 11 W. S. 22 on S.E.
S. 21 on S.W. and
S. 16 on N.W. faces, with 3 notches on S., and 3 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of stone 3 ft. base, 1½ ft. high, W. of cor.

Thence I run-

N. 89°47' E. on a true line bet. Secs. 15 and 22, through dense undergrowth of juniper, sagebrush and greasewood; ascending.

1.57 Cross fence, course S.
15.17 Cross fence, course S. 70° E.
25.00 Summit of ridge and descend.
39.00 Cross road to Little Rock Creek, course S. 20° E. and ascend.
40.18½ Set a juniper post 3 ft. long, 4 ins. sq. with marked stone 24 ins. in the ground for 1-4 sec. cor., marked 1-4 S. 15 on N. and 1-4 S. 22 on S. faces; raise a mound of rock 3 ft. base, and 1½ ft. high, N. of cor. Pits impracticable.
41.45 Summit of ridge and descend over broken red spurs.
57.00 Leave same, and through dense growth of juniper, sage and greasewood, descending.
74.50 Foot of steep mountain.
80.37 Point for sec. cor. falling on steep side of mountain, not a suitable place for cor. I set a redwood post 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, 2 chs. N. 89°47' E. for witness corner to Secs. 14, 15, 22 and 23, marked

W C T 5 N S 14 on N. E.
R 11 W S 23 on S.E.
S 22 on S. W. and
S 15 on N. W. faces, with 3 notches on S. and 2 notches on E. edges; and raise a mound of rock and earth 3 ft. base, and 1½ ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, 2nd rate.

Mountainous land and dense undergrowth 80.37 chs.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

N. 89°47' E. on a true line bet. Secs. 14 and 23.
 2.00 Witness cor. previously described.
 5.10 Summit of spur and descend.
 26.15 Enter bed of Little Rock Creek.
 28.40 Cross stream of water, 10 ft. wide, and 4 inches deep,
 course N. 20° E.
 34.00 Bluff E. bank of creek.
 35.30 Cross irrigating ditch and over level or prairie land.
 40.08½ Set a granite stone 18 x 7 x 6 ins., 12 ins. in the
 ground for 1-4 sec. cor., marked 1-4 on N. face; Dig
 pits 18 x 18 x 12 ins., E. and W. of stone, 3 ft.
 dist., and raise a mound of earth 3½ ft. base, and 1½
 ft. high, N. of cor.
 79.50 Cross road, course N. and S.
 80.17 Set a granite stone 20 x 6 x 6 ins., 15 ins. in the
 ground, for cor. of Secs. 13, 14, 23 and 24, marked
 with 3 notches on S. and 1 notch on E. edge, and raise
 a mound of stone 2½ ft. base and 1½ ft. high, W. of
 cor. Pits impracticable.
 Land, mountainous and level.
 Soil, 2nd. and 3rd rate.
 Mountainous land, ¾ chs.

May 12, 1903.

N. 89°47' E. on a true line bet. Secs. 13 and 24.
 Along N. side of road.
 40.13½ Set a granite stone 18 x 10 x 6 ins., 12 ins. in the
 ground for 1-4 sec. cor., marked 1-4 on N. face. Dig
 pits 18 x 18 x 12 ins., E. and W. of stone, 3 ft. dist.
 and raise a mound of earth 3½ ft. base, and 1½ ft.
 high, N. of cor.
 48.00 Cross to S. side of road.
 80.27 To cor. of Secs. 13, 18, 19 and 24, T. 5 N., Ranges 11 and
 12 W., S.B.M., previously described.
 Land, level.
 Soil, 2nd rate.

From the cor. of Secs. 15, 16, 21 and 22.
 West on a random line bet. Secs. 16 and 21.
 39.92 To a point 7 lks. S. of old mound and stake.
 To remark same, I set a redwood post 3 ft. long, 4 ins.
 sq. with marked stone, in old mound, marked 1-4 S. 16
 on N. and 1-4 S. 21 on S. faces; rebuild old mound and
 raise a mound of stone 2½ ft. base and 1½ ft. high N.
 of cor. Pits impracticable.

Thence I run-
 S. 89°54' E. on a true line bet. Secs. 16 and 21; descend-
 ing.
 17.00 Cross irrigating ditch 6 ft. wide, 2 ft. deep, course NW.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

23.30 Cross wash, 40 ft. wide, 6 ft. deep, at foot of mountain, course N.
 39.92 The cor. of Secs. 15, 16, 21 and 22.
 From the 1-4 sec. cor.
 West on a random line bet. Secs. 16 and 21.
 39.90 To a point 10 lks. N. of an old mound on N. slope of spur of mountain; find old stake at foot of spur.
 To re-establish cor. I set a redwood post 3 ft. long, 4 ins. sq. with marked stone in old mound, marked,
 T. 5 N., S. 16 on N.E.
 R. 11 W., S. 21 on S.E.
 S. 20 on S.W. and
 S. 17 on N.W. faces, with 3 notches on S. and 4 notches on E. edges, for cor. of Secs. 16, 17, 20 and 21. Rebuild old mound and raise a mound of stone, 2½ ft. base and 1½ ft. high, W. of cor. Pits impracticable.

Thence I run-

N. 89°51' E. on a true line bet. Secs. 16 and 21
 Descending.
 1.50 Cross ravine, 1 ch. wide, course N.W. and ascend.
 5.00 Summit of spur, course N. and descend.
 9.25 Cross dry wash, 30 ft. wide, 2 ft. deep, course N. and ascend.
 18.75 Summit of spur, course N. and descend.
 33.00 Cross irrigating ditch, course N. 60° W.
 39.90 The 1-4 sec. cor.
 For the last mile,
 Land, mountainous and sloping.
 Soil, 2nd. rate.
 Mountainous land, 56.52 chs.

 From the cor. of Secs. 16, 17, 20 and 21.
 West on a random line bet. Secs. 17 and 20.
 40.00 After diligent search, fail to find the 1-4 sec. cor. or witness trees as described by the Surveyor General.
 79.98 To point 14 lks. N. of old sec. cor., old stake in mound.
 To re-establish the cor. 17, 18, 19 and 20, I set a redwood post 3 ft. long, 4 ins. sq. with marked stone 24 ins. in the ground, marked

T. 5 N. S. 17 and N.E.
 R. 11 W. S. 20 and S.E.
 S. 19 on S.W. and
 S. 18 on N.W. faces, with 3 notches on S. and 5 notches on E. edges. Dig pits 18 x 18 x 12 ins., in each section, 5½ ft. distant, and raise a mound of earth 4 ft. base, 1½ ft. high, W. of cor.

Thence I run-

N. 89°54' E. on a true line bet. Secs. 17 and 20, across mesa.
 0.02 Cross fence, course N. and S.
 5.00 Cross fence, course N. and S.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

7.40 Cross fence, course S. 20° E.
 8.10 To W. end of barn of R.J. Evans on line.
 8.63 To E. end of barn.
 10.30 House of Evans 1 ch. S.
 14.00 Cross fence, course S.W.
 15.00 Summit of ridge, course N. and descend.
 21.50 Ravine, 1 ch. wide, course N.E.
 33.00 Summit of spur, course N. and descend.
 39.99 Set a redwood post 4 ft. long, 4 ins. sq., with marked
 stone, 36 ins. in the ground, for 1-4 sec. cor., in a
 ravine, 2 chs. wide, course N. marked 1-4 S. 17 on N.
 and 1-4 S. 20 on south faces, dig pits 18 x 18 x 12 ins.
 E. and W. of post and 3 ft. dist., and raise a mound of
 earth 3½ ft. base, 1½ ft. high, N. of cor.
 47.50 Summit of ridge, course N. thence over broken spurs.
 62.50 Summit of spur, course N. and descend.
 74.00 Cross ravine, 3 chs. wide, course N.E. and ascend.
 79.98 The cor. of Secs. 16, 17, 20 and 21.

Land, mountainous.
 Soil, 3rd rate.
 Mountainous land, 79.98 chs.

May 13, 1903.

 From the cor. of Secs. 17, 18, 19 and 20, I run
 West on a random line bet. Secs. 18 and 19.
 40.00 After diligent search fail to find the old cor. Set
 temp. 1-4 sec. cor.
 77.43 To a point 9 lks. N. of the cor. of Secs. 18 and 19, as
 re-established by me. I remove all marks from post,
 destroy mound west and reset pine post 3 ft. long,
 4 ins. sq. with marked stone 24 ins. in the ground,
 in the old mound for closing cor. of Secs. 18 and 19,
 marked

C C T 5 N R 11 W on E.
 S 18 on N. and
 S 19 on S. faces, with 3 grooves on N. and S.
 sides; rebuild old mound and raise a mound of
 rocks 2½ ft. base, 1½ ft. high, E. of cor.

Thence I run-
 N. 89°56' E. on a true line bet. Secs. 18 and 19, ascending.
 24.50 Top of spur, course N.
 31.25 Ravine, 50 lks. wide, course N.W.
 33.50 E. Bank of ravine.
 37.43 Set a redwood post 3 ft. long, 4 ins. sq. with marked
 stone, 24 ins. in the ground, for 1-4 sec. cor., marked
 1-4 S. 18 on N. and 1-4 S. 19 on S. faces; dig pits
 18 x 18 x 12 ins. E. and W. of cor. 3 ft. dist., and
 raise a mound of earth 3½ ft. base, 1½ ft. high N. of
 cor.
 49.50 Ravine, 20 lks. wide, course N.
 Thence over mesa land, covered with a dense growth of
 juniper.
 77.43 The cor. of Secs. 17, 18, 19 and 20.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S.B.M.

Land, mountainous,
Not timber.
Soil, 3rd rate.
Mountainous land and dense undergrowth 77.43 chs.

May 18, 1903.

From the cor. of Secs. 19, 24, 25 and 30, on east bdy.
of Tp., marked and witnessed as described by the
Surveyor General.

I run-
40.77 West on a random line bet. Secs. 24 and 25.
To a point 6 lks. S. of the 1-4 sec. cor., marked and
witnessed as described by the Surveyor General.

Thence I run.
S. $89^{\circ}55'$ E. on a true line bet. Secs. 24 and 25.

8.00 Top of spur, course N. 10° and S. 10° E. descend.
14.50 Base of spur.
33.00 Ravine, and ascend.
40.77 The cor. of Secs. 19, 24, 25 and 30.
From the 1-4 sec. cor., I continue
West on a random line.
40.20 To a point 10 lks. S. of the cor. of Secs. 23, 24, 25
and 26, marked and witnessed as described by the
Surveyor General.

Thence I run-
S. $89^{\circ}52'$ E. on a true line between Secs. 24 and 25.
1.00 Ravine, 10 lks. wide, course N.E. and ascend.
2.50 Top of spur, course N. and descend.
5.50 Wash 30 lks. wide, course N.E. and ascend.
30.50 Top of ridge, course N.E. and S.W.
40.20 The 1-4 sec. cor.

Land, for the last mile, mountainous.
Soil, 3rd rate.
Mountainous land, 80.97 chs.

From the cor. of Secs. 19, 20, 29 and 30, marked and
witnessed as described by the Surveyor General.

I run-
39.85 East on a random line bet. Secs. 20 and 29.
To a point 52 lks. N. of the 1-4 sec. cor. bet. Secs. 20
and 29, marked and witnessed as described by the
Surveyor General.

Thence I run-
N. $89^{\circ}15'$ W. on a true line bet. Secs. 20 and 29, over
rough broken, mountainous land.

SUBDIVISION RESURVEY OF PART OF T. 5 N., R. 11 W., S. B. M.

- 39.85 The corner of Sections 19, 20, 29 and 30.
Thence from the 1-4 sec. cor. I continue
East on a random line bet. Secs. 20 and 29.
- 39.96 To a point 40 lks. N. of the cor. of Secs. 20, 21, 28
and 29, marked and witnessed as described by the
Surveyor General.
- Thence I run-
N. $89^{\circ}26'$ W. on a true line bet. Secs. 20 and 29, over
rough, broken, mountainous land.
- 39.96 The 1-4 sec. cor.
Land for the last mile, mountainous.
Soil, 3rd rate.
Mountainous land, 79.81 chs.

May 18, at 8 A.M., I set off $34^{\circ}29'+$ on the lat. arc;
 $19^{\circ}24'$ N. on the decl. arc; and determine a meridian
with the solar at the cor. of Secs. 19, 20, 29 and
30, previously described.

- Thence I run-
West on a random line bet. Secs. 19 and 30.
- 40.58 To a point 4 lks. N. of the 1-4 sec. cor., marked and
witnessed as described by the Surveyor General.
- Thence I run-
N. $89^{\circ}56'$ E. on a true line bet. Secs. 19 and 30, over
rough mountainous land.
- 40.58 The cor. of Secs. 19, 20, 29 and 30.
Thence from the 1-4 sec. cor. I continue-
West on a random line bet. Secs. 19 and 30.
- 37.25 To a point 8 lks. S. of cor. No. 45, of the San Gabriel
Forest Reserve, closing cor. to Secs. 19 and 30,
marked and witnessed as described by the Surveyor
General.
- Thence I run-
S. $89^{\circ}53'$ E. on a true line bet. Secs. 19 and 30, over
rough mountainous land.
- 37.25 The 1-4 sec. cor.
Land, for the last mile, mountainous.
Soil, 3rd rate.
Mountainous land, 77.83 chs.

SUBDIVISION OF PART OF T. 5 N., R. 11 W., S. B. M.

- From the cor. of Secs. 13, 14, 23 and 24.
South on a random line bet. Secs. 23 and 24.
- 40.00 Set temp. 1-4 sec. cor.
- 79.82 Intersect line bet. Secs. 24 and 25, 88 lks. S. $89^{\circ}52'$ E.
from the cor. of Secs. 23, 24, 25 and 26, previously
described. I remove all marks in reference to Secs.

SUBDIVISION OF PART OF T. 5 N., R. 11 W., S.B.M.

23 and 24, from the post previously set for the cor. of Secs. 23, 24, 25 and 26, and set a granite stone 18 x 12 x 10 ins. in mound of rock, marked C C on N. face, and 2 notches on S. and 1 notch on E. edge; for closing cor. of Secs. 23 and 24, S. 89°52' E., 88 lks. from cor. of Secs. 25 and 26; raise a mound of rock, 3 ft. base, 2 ft. high, N. of cor. Pits impracticable.

From the closing corner,
 North on a true line bet. Secs. 23 and 24, ascending.
 30.00 Summit of ridge, course E. and W. & descend.
 38.00 Base of mountain.
 39.82 Set a granite stone 18 x 18 x 6 ins. 12 inches in the ground for 1-4 sec. cor., marked 1-4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone, 3 ft. dist. and raise a mound of earth and stone W. of corner.
 Mound 2½ ft. base, 1½ ft. high.
 79.82 The cor. of Secs. 13, 14, 23 and 24.

Land, mountainous and sloping.
 Soil, 2nd. and 3rd rate.
 No timber.
 Mountainous land, 38 chs.

May 14, 1903.

From a point for cor. of Secs. 14, 15, 22 and 23,
 South on a random line bet. Secs. 22 and 23.
 40.00 Set temp. 1-4 sec. cor.
 79.94 To a point 23 lks. E. of the cor. of Secs. 22, 23, 26 and 27, marked and witnessed as described by the Surveyor General.

Thence I run-
 N. 0°10' E. on a true line bet. Secs. 22 and 23, ascending.
 26.25 Summit of high ridge, course E. and W. and descend.
 39.94 Set a juniper post, 3 ft. long, 4 ins. sq., 24 ins. in the ground, for 1-4 sec. cor., marked 1-4 S. 22 on W. and 1-4 S. 23 on E. faces; from which-
 A juniper 10 ins. in diam., bears N. 82° E. 15 lks. dist., marked 1-4 S. 23 B T
 A juniper 6 ins. in diam. bears N. 64°45' W. 33 lks. dist., marked 1-4 S. 22 B T
 64.00 To bluff bank of Little Rock Creek.
 65.50 Stream of water, 10 feet wide, 4 ins., deep, course N. 80° E.
 68.50 N. bank of Little Rock Creek, and ascend through dense growth of sage and greasewood.
 75.00 Road, course E. and W.
 77.25 Foot of steep spur.
 79.94 Point for the cor. of Secs. 14, 15, 22 and 23.
 Land, mountainous.
 Soil, 3rd rate.
 Mountainous land and dense undergrowth 79.94 chs.

SUBDIVISION OF PART OF T. 5 N., R. 11 W., S.B.M.

May 15th. at 9 A.M., I set off $34^{\circ}31'$ on the lat. arc; $18^{\circ}42'$ on the decl. arc; and determined a true meridian with the solar at the cor. of Secs. 15, 16, 21 and 22.

Thence I run-

20.00 South on a true line, knowing that 1-4 S.C. bet. secs.
39.00 21 & 22 can not be found, between Secs. 21 and 22.
40.00 Dense growth of sage and chemisal.
N. bank of Little Rock Creek, course E.
After diligent search, fail to find the 1-4 sec. cor.
or witness trees as described by the Surveyor General.
As the point for the 1-4 sec. cor. falls in Little
Rock Creek, not a suitable place for cor., I set a
redwood post 3 ft. long, 4 ins. sq., with marked
stone 24 ins. in the ground, 1.50 chs. N. for
witness cor., marked W C 1-4 S 21 on W. and 1-4 S.
22 on E. face; dig pits 18 x 18 x 12 ins. N. and S.
3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

Thence I run-

39.95 South on a random line bet. Secs. 21 and 22.
To a point 22 lks. W. of cor. No. 46 of the San Gabriel
Forest Reserve; cor. of Secs. 21, 22, 27 and 28,
marked and witnessed as described by the Surveyor
General.

Thence I run-

7.50 N. $0^{\circ}19'$ W. on a true line bet. Secs. 21 and 22.
10.00 Foot of bluff, bank of mesa.
33.50 Top of bluff, thence descending.
39.00 S. bank of Little Rock Creek, course N. 30° E.
Stream of water, 10 ft. wide, 3 ins. deep, course
N. 30° E.
39.95 To point for 1-4 sec. cor. bet. Secs. 21 and 22.
Land for the last mile, mountainous and level.
Soil, 2nd and 3rd rate.
No timber.
Mountainous land and dense undergrowth 59.95 chs.
May 15th. At this 1-4 sec. cor. I set off $18^{\circ}44'$ N. on
the decl. arc; and at noon observe the sun on the
meridian. The resulting lat. is $34^{\circ}30'$,

From the cor. of Secs. 16, 17, 20 and 21,
South on a random line bet. Secs. 20 and 21.

40.00 Set temp. 1-4 sec. cor.
79.94 To a point 21 lks. E. of cor. of Secs. 20, 21, 28 and 29,
marked and witnessed as described by the Surveyor
General.

Thence I run-

6.00 N. $0^{\circ}09'$ E. on a true line bet. Secs. 20 and 21, descending.
13.00 Ravine, 1 ch. wide, course N.E.
39.94 Top of ridge, course N.E. and descend.
Set a juniper post 3 ft. long, 4 ins. sq. with marked

SUBDIVISION OF PART OF T. 5 N., R. 11 W., S. E. M.

Stone 24 ins. in the ground for 1-4 sec. cor., marked 1-4 S. 20 on the W. and 1-4 S. 21 on the E. face; dig pits 18 x 18 x 12 ins. N. and S. of cor., 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.

43.00 Base of spur.
 46.50 Top of spur, course N.E. descend.
 61.50 Ravine, 3 chs. wide, course N.E. and ascend.
 77.00 Top of spur and descend.
 79.94 The cor. of Secs. 16, 17, 20 and 21.

Land, mountainous.
 Soil, 3rd rate.
 No timber.
 Mountainous land 79.94 chs.

May 15, 1903.

May 16, 1903, at 7.15 A.M., I set off 34°30' on the lat. arc; 18°57' N. on the decl. arc; and determine a meridian with the solar at the cor. of Secs. 17, 18, 19 and 20.

Thence I run-
 South on a random line bet. Secs. 19 and 20.
 40.00 Set temp. 1-4 sec. cor.
 78.91 Intersect line bet. Secs. 20 and 29, 8 lks. S. 89°15' E. of the cor. of Secs. 19, 20, 29 and 30, previously described.

Thence I run-
 N. 0°03' E. on a true line bet. Secs. 19 and 20, descending.
 16.00 Top of spur, course E.
 38.91 Set a redwood post, 3 ft. long, 4 ins. sq. with marked stone 24 ins. in the ground for 1-4 sec. cor., marked 1-4 S. 19 on W. and 1-4 S. 20 on E. face; dig pits 18 x 18 x 12 ins. N. and S. of cor., 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
 41.00 Base of spur, course N.E.
 44.00 Top of spur.
 48.50 Foot of same.
 52.00 Ravine, 5 chs. wide, course N.E.
 59.00 Top of spur, course N.E.
 61.00 Foot of same.
 64.00 Ravine 3 chs. wide, course E.
 68.00 Top of bluff and descend.
 78.91 The cor. of Secs. 17, 18, 19 and 20.

Land, mountainous.
 Soil, 2nd and 3rd rate.
 No timber.
 Mountainous land, 78.91 chs.

SUBDIVISION OF PART OF T. 5 N., R. 11 W., S. B. M.

G E N E R A L D E S C R I P T I O N

This part of T. 5 N., R. 11 W., S. B. M., lies upon the northern slope of the San Bernardino range of mountains.

It is for the most part rough and mountainous, with dense undergrowth in places. The soil is 2nd. and 3rd rate. There is no running water, except what flows in Little Rock Creek, during part of the year. No timber.

There are two settlers in this tier of sections, one in Sec. 20, and one in Sec. 24.

No officer authorized to administer oaths, other than myself, being available without great inconvenience, delay and expense, I administered the required preliminary and final oaths.

Legrand Friel,

U. S. Deputy Surveyor.

BOUNDARIES OF PART OF T. 5 N., R. 11 W., S. B. M.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitude		Departure	
			N.	S.	E.	W.
N. Bdy. secs. 22, 23 and 24	S. 89° 47' W.	240.81		0.91		240.81
N. Bdy. Sec. 21	N. 89.54 W.	39.92	0.07			39.92
N. Bdy. Sec. 21	S. 89.51 W.	39.90		0.10		39.90
N. Bdy. Sec. 20	S. 89.54 W.	79.98		0.14		79.98
N. Bdy. Sec. 19	S. 89.56 W.	77.43		0.09		77.43
W. Bdy. Sec. 19	S. 0.05 E.	20.14		20.14	0.03	
W. Bdy. Sec. 19	S. 0.20 W.	39.63		39.63		0.23
W. Bdy. Sec. 19	S. 0.38 W.	19.06		19.06		0.21
S. Bdy. Sec. 19	N. 89.53 E.	37.25	0.08		37.25	
S. Bdy. Sec. 19	N. 89.56 E.	40.58	0.04		40.58	
S. Bdy. Sec. 20	S. 89.15 E.	39.85		0.52	39.85	
S. Bdy. Sec. 20	S. 89.26 E.	39.96		0.40	39.96	
S. Bdy. Secs. 21, 22 and 23	East	240.00			240.00	
S. Bdy. Sec. 24	S. 89° 52' E.	40.20		0.10	40.20	
S. Bdy. Sec. 24	S. 89.55 E.	40.77		0.06	40.77	
E. Bdy. Sec. 24	N. 0.10 E.	40.13	40.13		0.12	
E. Bdy. Sec. 24	North	40.13	40.13			
Convergency						0.08
			80.45	81.15	478.76	478.76
				80.45	478.56	
	Errors in lat. and dep.			0.70	0.20	