

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

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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.

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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.

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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.

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May 18; at the closing cor. of Secs. 19 and 30, R. 11 W. (W.M. Holmes) 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 witnessed 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 <sup>stone</sup>  $18 \times 8 \times 6$  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, previously 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.

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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.

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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.

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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.  
40.16½ 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.