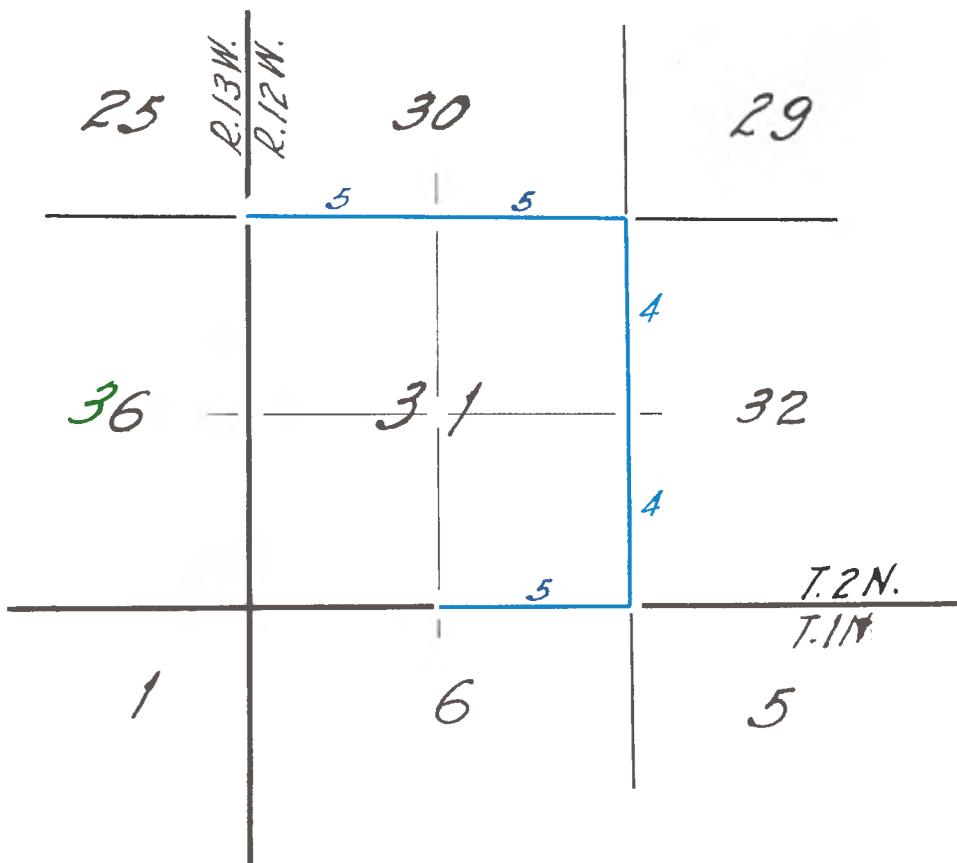


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Blue lines run by Legrand Friel

PRELIMINARY OATHS OF ASSISTANTS.

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We, Ralf O. Hanson and Alfred W. Holly, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision of part of T. 2 N., R. 12 W., S.B.M.

Ralf O. Hanson, Chairman.

Alfred W. Holly, Chainman.

Subscribed and sworn to before me this 15  
day of October, 1909.

Legrand Friel,

SEAL

United States Deputy Surveyor.

We, \_\_\_\_\_ and \_\_\_\_\_ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_.

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

Legrand Friel,

U. S. Deputy Surveyor, \_\_\_\_\_, Moundman.

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 19 \_\_\_\_\_

SEAL

PRELIMINARY OATHS OF ASSISTANTS.

We, \_\_\_\_\_ and \_\_\_\_\_ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_

SEAL

I, Percy M. Stafford, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision of part of T. 2 N., R. 12 W., S. B. M.

Percy M. Stafford, Flagman.

Subscribed and sworn to before me this 15th day of October, 1909.

Legrand Friel,

SEAL

United States Deputy Surveyor.

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

Legrand Friel,

U. S. Deputy Surveyor.

Subdivision of T. 2 N., R. 12 W., S.B.M.

Chains.

Survey commenced October 14, 1909, and executed with a W. and L. E. Curley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

I begin at the cor. of Secs. 5, 6, 31 and 32, Ts. 1 and 2 N. R. 12 W., S.B.M. which is a sycamore post 4 ins. square, 12 ins. above ground, marked and witnessed as described by the Surveyor General. Latitude  $34^{\circ}12'$  N., longitude  $118^{\circ}10'$  W.

In order to test the solar apparatus by comparing the results of observations on the sun made during A. M. and P. M. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At 3hs.  $00'$  P. M., local mean time, I set off  $34^{\circ}12'$  N., on the latitude arc,  $8^{\circ}9'$  S. on the declination arc, and mark the meridian thus determined with the solar by a tack in a stake firmly driven in the ground 5 chs. north of the instrument.

At 11h.  $48'$  P. M. local mean time, I observe Polaris at upper culmination, in accordance with instructions in the manual, and mark the line thus determined by a tack driven in the stake 5 chs. north of my station. This mark falls 0.3 ins. east of the meridian determined by the solar.

October 14, 1909.

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October 15th, 1909.

At 9h. A. M., l.m.t. I set off  $34^{\circ}12'$  N. on the latitude arc,  $8^{\circ}26'$  S. on the decl. arc and mark the true meridian thus determined with the solar by a tack in the post already set 5 chs. north of my station. This mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus by P.M. and A.M. observations defines positions for meridians about  $0'16''$  W. and  $0'21''$  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 meridian at 9h. A.M. is N.  $14^{\circ}10'$  W. The angle thus determined gives the mag. decl.  $14^{\circ}10'$  E.

Subdivision of T. 2 N., R. 12 W., S.B.M.

Chains.

After diligent search I failed to find the 1/4 sec. cor. between Secs. 31 and 32. I therefore return to the cor. of Secs. 5, 6, 31 and 32, Ts. 1 and 2 N., R. 12 W. previously described.

At 2 P. M., l.m.t. October 15, I set off  $34^{\circ}12'$  N. on the latitude arc,  $8^{\circ}31'$  S. on the decl. arc, and determine a true meridian with the solar.

Thence I run  
 North between Secs. 31 and 32.

0.75 Road in Arroyo Seco Canon bears N.  $80^{\circ}$  W. and S.  $80^{\circ}$  E.  
 2.90 Arroyo Stream in Arroyo Seco, 6 lks. wide, course S.  $80^{\circ}$  E. and ascend.  
 7.00 Spur course S.W., and descend.  
 8.30 Gulch, 20 lks. wide, course S.W. and ascend through dense growth of chemical.  
 22.35 Summit of ridge bears N.E. and S.W. and descend.  
 27.00 Gulch, 10 lks. wide, course S.W. and ascend.  
 40.00 Set a granite stone  $24 \times 10 \times 8$  ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on West face, and raise a mound of stone  $3\frac{1}{2}$  ft. base, 2 ft. high West of cor.  
 Pits impracticable.

October 15, 1909.

42.00 Summit of ridge bears N.E. and S.W. and descend.  
 49.00 Stream in canon 3 lks. wide, course S.W. ascend over broken brushy mesa.  
 75.00 Descend.  
 77.00 Gulch, 10 lks. wide, course S.E. and ascend.  
 80.00 Set a granite rock  $18 \times 6 \times 6$  ins. 12 ins. in the ground, for cor. of Secs. 29, 30, 31 and 32, marked with one notch on south and 5 notches on east edge; from which  
 An Oak 12 ins. diameter bears S.  $62^{\circ}3'$  W., 207 lks. distant, marked T. 2 N., R. 12 W., S. 31 B. T.  
 No other trees within limit. Pits impracticable.  
 Raise a mound of stone 4 ft. base, 2 ft. high west of corner.

Land, mountainous.  
 Soil, 2nd and 3rd rate.  
 No timber.  
 Mountainous land, covered with a dense undergrowth of chemical, 80 chains.

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Subdivision of T. 2 N., R. 12 W., S.B.M.

Chains.

October 20, 1909:

At the cor. of Secs. 29, 30, 31 and 32, at 2 P.M. 1.m.t.  
I set off  $34^{\circ}13'$  N. on the lat. arc; and  $10^{\circ}20'$  S. on the  
decl. arc, and determine a true meridian with the solar.

Thence I run

40.00 West on a random line between Secs. 30 and 31.  
Set temporary  $1/4$  sec. cor.

October 20, 1909.

76.36 Intersect W. boundary township 28 lks. S. of the cor. of  
Secs. 25, 30, 31 and 36, T. 2 N., Rs. 11 and 12 W.,  
which is a granite stone 10 x 16, 10 ins. above ground,  
marked and witnessed as described by the Surveyor  
General.

Thence I run

36.36 S.  $89^{\circ}47'$  E. on a true line between Secs. 30 and 31;  
descend through a dense growth of iron wood and chemical.  
Set a granite stone 20 x 8 x 6 ins. 15 ins. in the ground  
for  $1/4$  sec. cor. marked  $1/4$  on North face; from which  
A live oak 10 ins. diameter bears north 56 links  
dist., marked  $1/4$  S. 30 B T.  
A live oak 24 ins. diameter bears S.  $56^{\circ}40'$  W.  
103 lks. dist., marked  $1/4$  S. 31 B T.  
House U. S. Forest Rangers Station bears S.  $40^{\circ}$  E.  
about 5 chs. dist., raise a mound of stone 3  
ft. base, 2 ft. high N. of cor.  
39.00 Road in Arroyo Seco Canon bears S.  $40^{\circ}$  E. and N.  $40^{\circ}$  W.  
39.50 Stream in Arroyo Seco Canon 6 lks. wide, course S.  $40^{\circ}$  E.  
40.50 Ascend steep rough mountain, covered with a dense under-  
growth of chemical.  
62.80 Summit of ridge bears N. and S. and descend.  
76.36 The cor. of Secs. 29, 30, 31 and 32.

Land mountainous.

Soil, 3rd rate.

No timber.

Mountainous land, covered with a dense undergrowth of  
brush, 76.36 chains.

October 21, 1909.

As there is a misclosure in Sec. 31 tabled in connection  
with lines previously surveyed, I go to the cor. of Secs.  
5, 6, 31 and 32, Ts. 1 and 2 N., R. 12 W. and run  
36.10 S.  $89^{\circ}30'$  W. on a random line on the South boundary 31.  
to 2 lks. N. of the  $1/4$  sec. corner between Secs. 6 and 31,  
which is a granite stone 6 x 12, 8 ins. above ground,  
marked and witnessed as described by the Surveyor General  
Thence I run

Subdivision of T. 2 N., R. 12 W., S.B.M.

Chains.

36.10 N. 89°28' E. on a true line between Secs. 6 and 31.  
The cor. of Secs. 5, 6, 31 and 32.

October 22, 1909.

Boundaries of Sec. 31, T. 2 N., R. 12 W., S.B.M.

Line designated.	True Bearing.	Distance Chains	Latitudes		Departures	
			N.	S.	E.	W.
South Bdy.	S. 89°28' W.	36.10		0.34		36.10
" "	N. 89° 1' W.	39.86	0.69			39.86
West Bdy.	North	80.08	80.08			
North "	S. 89°47' E.	76.36		0.29	76.36	
East "	South	80.00		80.00		
Convergency,						.01
			80.77	80.63	76.37	75.96

GENERAL DESCRIPTION.

The land in this section is of but very little value for agricultural or grazing purposes. Along the bottom of the Arroyo Seco Canon, which runs through the section, and on each side of the stream are quite a number of small flats. Upon some of these flats houses have been constructed, and are occupied during the summer season by people from the valley and elsewhere.

The principal value of this section is in leasing ground for the above purposes.

Legrand Friel,  
U. S. Deputy Surveyor.