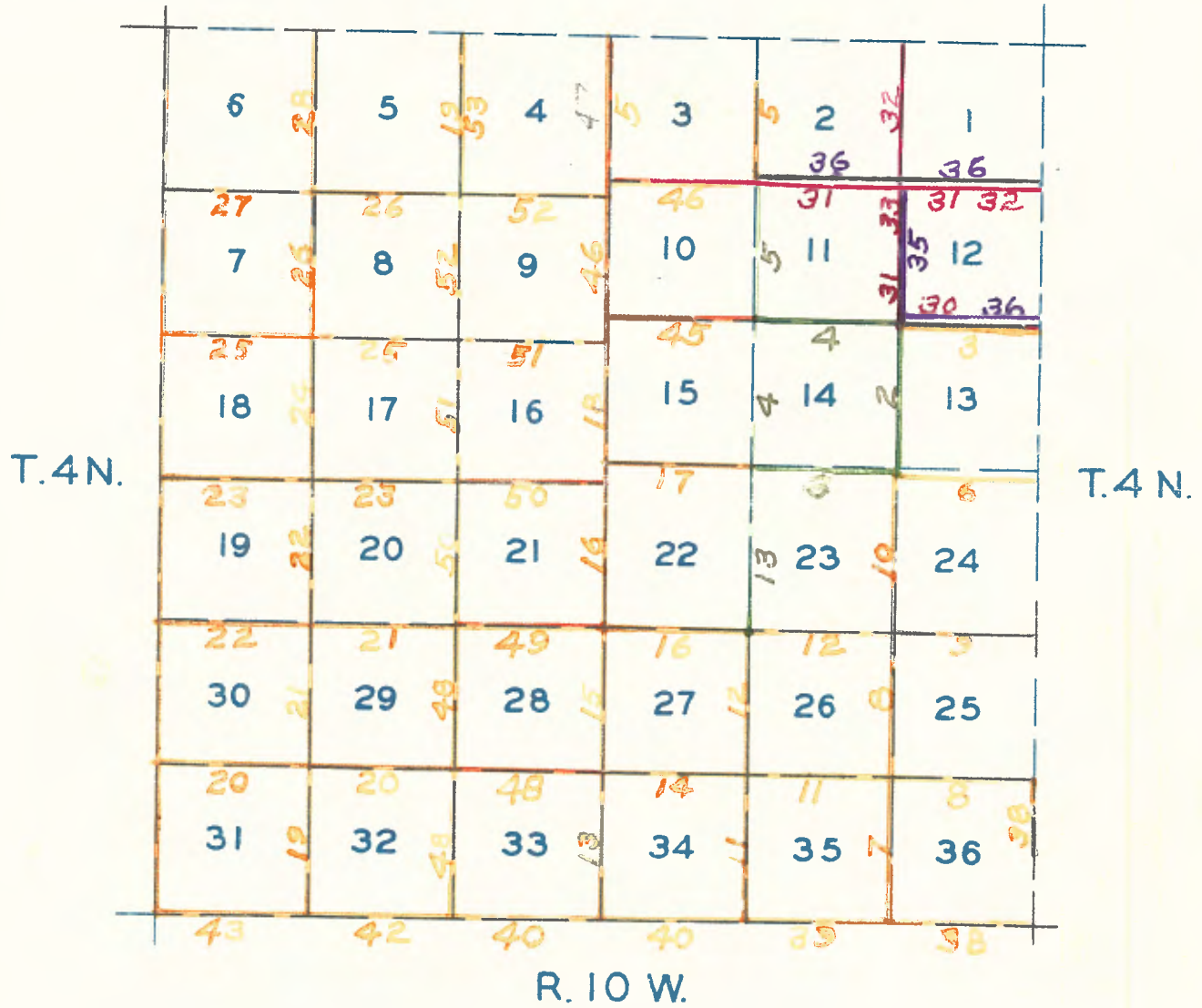


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R. 10 W.



- W W Allen 1904
- W W Allen 1905
- Burnham & Warner 1912, 1913
- A. W. Brown 1917

Survey commenced by H. J. Burnham and A. Parker Warner, November 25, 1921 and executed with Young and Son's light mountain transits Nos. 8396 and 8149, with solar attachments.

For description of instruments see Book A, Group 11.

The adjustments of the transits were examined, the level and collimation errors corrected; then to test the solar apparatus by comparing its indications, resulting from solar observations made during p.m. and a.m. hours, with a meridian determined by observations on Polaris. I proceed as follows with instrument No. 8396.

Nov. 25, 1912.

Near the cor. of secs. 1, 2, 11 and 12, T. 4 N., R. 10 W., latitude  $34^{\circ} 27' N.$ , longitude  $117^{\circ} 54' W.$ , I set off  $34^{\circ} 27' N.$  on the latitude arc;  $20^{\circ} 45' S.$  on the decl. arc and at 3h. 30m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stake driven firmly in the ground 5 chains N. of my station.

November 26. At 3h. 07m. a.m. lmt. I observe Polaris at western elongation, in accordance with the Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chains N. of my station. November 26, 1912.

November 26. At 8h. a.m. l.m.t., I lay off the azimuth of Polaris,  $1^{\circ} 24'$  to the east and mark the meridian thus determined by a tack driven in the stake, set November 25, on which the meridian falls 0.6 ins. west of the mark determined by the solar.

At 8h. 10m. a.m., l.m.t., I set off  $34^{\circ} 27'$  on the lat. arc;  $20^{\circ} 55' S.$  on the decl. arc; and mark a point in the meridian determined with the solar, by a pencil mark on the stake already set 5 chs. N. of my station; this point falls 0.4 ins. W. of the meridian established by the observation on Polaris.

The solar apparatus by p.m. and a.m. observations defines positions for meridians, respectively about  $0^{\circ} 31' E.$ , and  $0^{\circ} 21'$  west of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instruments are satisfactory.

The magnetic bearing of the true meridian at 8h. 30m. a.m. is  $N. 14^{\circ} 45' W.$  the angle thus determined gives the magnetic declination  $14^{\circ} 45' E.$

At the same place I examine the adjustment of the Young and Son's light mountain transit No. 8149, with solar attachment. I test the solar apparatus on the above meridian as determined by Polaris by comparing its indications made during p.m. and a.m. hours, and find the three meridians to fall within an arc of  $1' 30''$ . I therefore conclude that the adjustment of the instrument are satisfactory. November 26, 1912.

Survey commenced by A. W. Brown, September 27, 1917 and executed with a Young and Son's transit No. 8456, with solar attachment. The horizontal limb is provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The adjustments of the transit were examined and the level and collimation errors corrected; then to determine a meridian, I proceed as follows:

Chains

Retracement of Subdivisions of T. 4 N., R. 10 W.

At the cor. of secs. 11, 12, 13 and 14, latitude  $34^{\circ} 27'$  N. longitude  $117^{\circ} 54'$  W., at 7h.11m. p.m., l.m.t., I observe Polaris at eastern elongation and mark a point in the line thus determined by a tack in a stake set firmly in the ground 10 chs. N. of my station.  
September 27, 1917.

September 28, 1917. At 5h. a.m., l.m.t., I lay off the azimuth of  $1^{\circ} 22' 30''$  to the left, and mark the meridian thus determined by a tack in a stake set firmly in the ground 10 chs. N. of my station.

After having completed the survey by deflection from the meridian, I deflect  $90^{\circ} 30'$  to the right, at the cor. of secs. 11, 12, 13 and 14, from the  $\frac{1}{4}$  sec. cor. bet. secs. 11 and 14, and find that the meridian bears N.  $0^{\circ} 01'$  W. I therefore conclude that my instrument was in satisfactory adjustment.

All measurements were made with a 5 chain steel tape, graduated to links. Slope angles were measured with a clinometer and the slope distances reduced to the horizontal.

The cor. of secs. 13, 14, 23 and 24, is an iron post 3 ins. diam. 12 ins. above ground in a mound of stone with brass cap marked

T 4 N		
S 14	S 13	1
S 23	S 24	HES92
R 10 W		

with a mound of stone 3 ft. base, 2 ft. high W. of cor. This cor. was reestablished by Percy L. Day, National Forest Examiner, Forest Service, in accordance with H.E. Sur. No. 92.

Thence

N.  $0^{\circ} 30'$  W. on a random line bet. secs. 13 and 14.

20.02 Fall 3 lks. W. of the 1-16 sec. cor. and Cor. No. 2 of H.E.S. No. 92, which is a granite stone  $14 \times 10 \times 8$  ins. above ground, marked  $\frac{1}{4}$  S. on the S.W. and 2 H E S 92 on the S.E. face, with a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S.E. of cor. This cor. was established by Percy L. Day, National Forest Examiner, Forest Service, in connection with H.E. Sur. No. 92

40.05 Fall 6 lks. W. of the  $\frac{1}{4}$  sec. cor. which is a juniper post, 4 ins. sq. 12 ins. above a mound of stone, marked  $\frac{1}{4}$  S. 14 on W. and S. 13 on the E. faces, with a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

Thence

N.  $0^{\circ} 19'$  W. on a random line bet. secs. 13 and 14.

40.18 Fall 1 lk. E. of the cor. of secs. 11, 12, 13 and 14, which is a juniper post  $3\frac{1}{2}$  ins. sq., 12 ins. above a mound of stone, marked and witnessed as described by the Surveyor General.

I return to the cor. of secs. 13, 14, 23 and 24, which is also cor. No. 1 of H.E.S. No. 92

Thence

N.  $0^{\circ} 25'$  W. on a true line bet. secs. 13 and 14, ascend S.W. slope out of wash.

3.90 Descend 50 ft. over perpendicular bank into dry wash, course N.  $10'$  E.

15.80 Ascend 50 ft. over steep S.W. slope out of wash.

16.50 Crest of ascent, bears N.W. and S.E.

20.02 The 1-16 sec. cor. and cor. No. 2 of H.E.S. No. 92

25.10 Road bears N.W. and S.E. Thence across N. slope of mesa thru Spanish bayonets and juniper brush.

40.05 The  $\frac{1}{4}$  sec. cor. bet. secs. 13 and 14.

Thence N.  $0^{\circ} 20'$  W. on a true line bet. secs. 13 and 14.

14.50 Old deserted road bears NW. and S.E.

## Chains

Retracement of Subdivisions of T. 4 N., R. 10 W.

- 26.00 Old deserted road bears N.W. and S.E.  
 39.19 New road, bears N.W. and S.E.  
 40.18 The cor. of secs. 11, 12, 13 and 14.  
 Land gradually sloping & broken, drains N. and NW.  
 Soil sandy and rocky, 4th rate.  
 Scattering yucca palms, juniper and pine brush and Spanish bayonets.  
 September 25, 1917.
- 
- From the cor. of secs. 11, 12, 13 and 14.  
 I retrace E. on a random line bet. secs. 12 and 13.  
 40.25 Fall 10 lks. N. of old  $\frac{1}{4}$  sec. cor., which is a redwood post 4 ins. square, 12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.  
 50.34 Fall 2 lks. N. of cor. of secs. 12 and 13.  
 Thence I run  
 S.  $89^{\circ} 53'$  W. on a true line bet. secs. 12 and 13.  
 Ascend over E. slope of mountain, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine and pinon timber.  
 6.50 Top of spur, bears N. and S., thence ascend along S. slope.  
 25.00 Ridge, bears S.  $70^{\circ}$  E. and N.  $70^{\circ}$  W. descend over W. slope.  
 34.50 Top of spur bears SW. and NE. descend.  
 38.40 Ravine 10 lks. wide, course SW., ascend along S. slope.  
 40.09 The  $\frac{1}{4}$  sec. cor. Thence I run N.  $89^{\circ} 51'$  W. on a true line bet. secs. 12 and 13.  
 11.20 Top of spur bears S.W. and N.E.  
 18.61 Ravine 20 lks. wide, course S.W. Ascend.  
 24.91 Top of spur, bears SW. and NE. Descend.  
 28.31 Leave mountain, bears N.W. and S.E., thence over level land.  
 32.30 Dry wash 50 lks. wide, course NW.  
 40.25 The cor. of secs. 11, 12, 13 and 14.  
 Land mountainous, and level, drains W. and N.W.  
 Soil, rocky and sandy; 3rd and 4th rates. Scattering oak, pine, pinon and manzanita brush, scattering oak, pine and juniper timber.  
 Mountainous land and land covered with scattering oak, pine, pinon, and juniper brush, scattering oak, pine, pinon and juniper timber  
 68.40 chains.  
 November 26, 192
- 
- From the cor. of secs. 13, 14, 23 and 24.  
 S.  $89^{\circ} 20'$  W. on a random line bet. secs. 14 and 23.  
 9.92 Intersect closing cor. and cor. No. 4 of H.E.S. No. 93, which is a granite stone 10x10x8 ins. above ground, marked and witnessed as described by the Surveyor General in field notes of H.E.S. No. 93  
 34.80 Intersect Cor. No. 1 of H.E. Sur. No. 93 which is a granite stone, 10x8x8 ins. above ground, marked and witnessed as described the the Surveyor General, in field notes of H.E.S. No. 93  
 39.76 Intersect the  $\frac{1}{4}$  sec. cor and Cor. No. 2 of H.E.S. No. 94 which is a granite stone 10x8x8 ins. above ground marked and witnessed as described by the Surveyor General, in field notes of H.E.S. No. 94  
 40.26 Intersect the witness  $\frac{1}{4}$  sec. cor. which is a juniper stake 2 $\frac{1}{2}$  ins. sq. 12 ins. above a mound of stone marked W.S. & S. on the N. face.  
 I make a diligent search for the iron post  $\frac{1}{4}$  sec. cor. set by U.S. Surveyors Burnham and Warner, but without result. It has undoubtedly been carried away down the wash by a freshet. Thence S.  $89^{\circ} 55'$  W. on a random line bet. secs. 14 and 23.

## Chains

Retracement of Subdivisions of T. 4 N., R. 10 W.

- 39.28 Intersect the cor. of secs. 14, 15, 22 and 23, being cor. No. 1 of H.E.S. No. 94, which is a juniper post 3 ins. sq., 12 ins. above ground marked and witnessed as described the the Surveyor General in the filed notes of H.E.S. No. 94.  
I return to the cor. of Secs. 13, 14, 23 and 24.  
Thence S. 89° 20' W. on a true line between Secs. 14 and 23, across washed land.
- 0.40 Main wash, 30 lks. wide, 10 ft. deep course N.  
5.20 W. bank of wash 3 chs. wide, course N.  
9.92 Closing cor. and cor. No. 4 of H.E.S. No. 93  
13.80 Road bears N. and S.  
34.80 Cor. No. 1 of H.E.S. No. 93.  
39.76 The  $\frac{1}{2}$  sec. cor. and Cor. No. 2 of H.E.S. No. 94  
40.26 The witness cor. to  $\frac{1}{2}$  sec. cor. which is 50 lks. S. 89° 20' W. of the  $\frac{1}{2}$  sec. cor., thence  
S. 89° 55' W. on a true line bet. secs. 14 and 23.
- 39.28 The cor. of secs. 14, 15, 22 and 23, being also cor. No. 1 of H.E.S. No. 94.  
Land gradually sloping & broken, drains N. and NE.  
Soil, sandy and rocky; 3rd and 4th rate.  
Scattering oak, pine, pines and yucca palms. September 28, 1917

- From the cor. of secs. 14, 15, 22 and 23.  
N. 0° 30' W. on a random line bet. secs. 14 and 15.
- 39.96 Fall 31 lks. W. of old  $\frac{1}{2}$  sec. cor. which is an oak post 3 ins. square, 12 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.  
I renew the marks on the bearing trees.  
Thence from the  $\frac{1}{2}$  sec. cor.  
N. 0° 24' W. on a random line bet. secs. 14 & 15.
- 40.04 Fall 27 lks. W. of cor. of secs. 10, 11, 14 and 15, which is an oak post 3 ins. square, supported by a mound of stone, properly marked and witnessed as described the the Surveyor General. I renew the marks on the bearing trees.  
I return to the cor. of secs. 14, 15, 22 and 23.  
Thence  
N. 0° 03' W. on a true line bet. secs. 14 and 15
- 34.60 Dry wash, 40 lks. wide, 10 ft. deep course N.W.  
39.96 The  $\frac{1}{2}$  sec. cor. bet. secs. 14 and 15.  
Thence  
N. 0° 01' W. on a true line bet. secs. 14 and 15.
- 26.00 Low brushy spur slopes N.E. Descend rolling N. slope thru juniper and scrub pine.  
40.04 The cor. of secs. 10, 11, 14 and 15.  
Land broken and gradually sloping, drains N. and N.W.  
Soil, sandy and rocky, 3rd and 4th rates.  
Scattering oak, pine, juniper and yucca palms.

- N. 89° 30' E. on a random line bet. secs. 11 and 14, the cor. of secs. 11, 12, 13 and 14, being visible.
- 39.30 Intersect the  $\frac{1}{2}$  sec. cor. which is a juniper post, 3 ins. square, supported in mound of stone, marked as described by the Surveyor General.  
I raise a mound of stone 2 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high N. of cor.  
I return to the cor. of secs. 10, 11, 14 and 15.  
Thence  
N. 89° 30' E. on a true line bet. secs. 11 and 14, along rolling N. slope thru juniper and scrub pine brush, thru dry gulches and across nearly flat mesa.

Chains

Retracement of Subdivisions of T. 4 N., R. 10 W.

7.50 Dry wash, 50 lks. wide, course N.  
 26.00 " " 40 " " " "  
 39.30 The  $\frac{1}{4}$  sec. cor. bet. secs. 11 and 14.  
 45.00 Center of dry gravelly wash 4 lks. wide, course N.  
 45.50 Road bears N. and S.  
 59.85 Road bears N.W. and S.E.  
 76.30 New road, bears N.W. and S.E.  
 78.99 The cor. of secs. 11, 12, 13 and 14. September 29, 1917.

From the cor. of secs. 10, 11, 14 and 15, I retrace  
 N.  $0^{\circ} 1'$  W. on a random line bet. secs. 10 and 11.  
 39.95 Fall 42 lks. E. of old  $\frac{1}{4}$  sec. cor., which is a juniper post 3 ins.  
 square, 10 ins. above ground, firmly set, marked and witnessed as  
 described by the Surveyor General.  
 I renew the marks on the bearing trees.  
 79.70 Fall 39 lks. E. of cor. of secs. 2, 3, 10 and 11, which is a decayed  
 post, marks nearly obliterated.  
 Set in a mound of stone.  
 I destroy this old corner and reestablish the same as follows:  
 Set an iron post 3 ft. long, 2 ins. dia.,  $2\frac{1}{4}$  ins. in the ground for  
 cor. of secs. 2, 3, 10 and 11, with brass cap marked

T 4 N	R 10 W
<u>8 3</u>	<u>8 2</u>
8 10	8 11

and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 Thence I run  
 S.  $0^{\circ} 2'$  W. on a true line bet. secs. 10 and 11.  
 Ascend over N. slope thru scattering pine, pinon, juniper and  
 yucca palms.  
 16.40 Top of spur bears E. and W., desc.  
 24.00 Dry wash, 10 lks. wide, course E. asc.  
 27.00 Top of spur, bears E. and W., desc.  
 30.00 Dry wash, 30 lks. wide, course N.E.  
 34.60 Top of spur, bears E. and W., desc.  
 39.72 The  $\frac{1}{4}$  section.  
 I continue the same measurement.  
 Thence I run  
 S.  $0^{\circ} 37'$  E. on a true line bet. secs. 10 and 11.  
 10.08 Dry wash, 30 lks. wide, course N.E.  
 23.68 Old road to Burkhardt's Ranch to Little Rock, bears N.E. and S.W.  
 27.28 Dry wash, 30 lks. wide, course N.W.  
 38.70 Dry wash, 30 lks. wide, course N.W.  
 39.98 The cor. of secs. 10, 11, 14 and 15.  
 Land broken, drains N. and N.W.  
 Soil, sandy and rocky, 4th rate.  
 Scattering oak, pine, juniper and yucca palms.

From the cor. of secs. 2, 3, 10 and 11. I retrace  
 N.  $0^{\circ} 1'$  W. on a random line bet. secs. 2 and 3.  
 39.93 Fall 10 lks. west of old  $\frac{1}{4}$  sec. cor. which is a juniper post, 3  
 ins. square, with charred stake alongside, 12 ins. above ground,  
 firmly set, marked and witnessed as described by the Surveyor  
 General. I renew the pits.  
 50.42 Fall 3 lks. E. of cor. of secs. 2, 3, 34 and 35.  
 Thence I run  
 S.  $0^{\circ} 12'$  E. on a true line bet. secs. 2 and 3.  
 Over level desert, thru scattering oak, pine, juniper and yucca  
 palms.

Chains

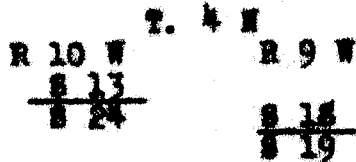
Retracement of Subdivisions of T. 4 N., R. 10 W.

10.60 Dry wash 20 lks. wide, course N.E.  
 24.00 Dry wash 50 lks. wide, course N.E.  
 30.00 Dry wash 30 lks. wide, course N.E.  
 34.00 Road from Pallett's Ranch to Little Rock, bears N.W. and S.E.  
 40.49 The  $\frac{1}{4}$  sec. cor.  
 Thence I run  
 S.  $0^{\circ} 5'$  W. on a true line bet. secs. 2 and 3.  
 1.90 Dry wash, 30 lks. wide, course N.E.  
 6.70 Dry wash 40 lks. wide, course N.E.  
 11.60 Top of spur, bears E. and W. desc.  
 30.20 Dry wash, 40 lks. wide, course E. and W.  
 30.51 Old wagon road, bears E. and W.  
 39.93 The cor. of secs. 2, 3, 10 and 11.  
 Land level and broken, drains N. and N.W.  
 Soil, sandy and rocky; 4th rate.  
 Scattering oak, pine, pinon and juniper brush. December 3, 1912.

X

Subdivision of T. 4 N., R. 10 W.

40.00 From the cor. of secs. 13, 14, 23 and 24, I run  
 79.94 East on a blank line bet. secs. 13 and 24.  
 Set temp.  $\frac{1}{4}$  sec. cor.  
 Intersect E. bdy. of T. 4 N., R. 10 W., 11.29 chains N. of cor. of  
 secs. 13, 18, 19 and 24. This cor. now becomes the cor. of secs. 18  
 and 19 of R. 9 W. I therefore destroy all markings referring to  
 secs. 13 and 24. At the point of intersection set an iron post,  
 3 ft. long, 2 ins. dia. 24 ins. in the ground for cor. of sec. 13  
 and 24, with brass cap mkd.



from which  
 A bull pine 10 ins. diam., bears S.  $40^{\circ} 15' W.$  275 lks. dist. marked  
 T. 4 N., R. 10 W., S 24 B.T.  
 A bull pine, 24 ins. diam. bears N.  $82^{\circ} 15' W.$  250 lks. dist.  
 marked T. 4 N R 10 W, S 13 B T  
 I return to the temp.  $\frac{1}{4}$  sec. cor. set on the E. bdy. of sec. 13  
 At 40 chs. S.  $0^{\circ} 07' W.$  from N.E. cor. thereof,  
 and at the same point set an iron post 3 ft. long 1 in. dia. 24 ins.  
 in the ground for  $\frac{1}{4}$  sec. cor. of sec. 13, with brass cap marked  
 S 13  $\frac{1}{4}$

and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 From the cor. of secs. 13 and 24, I run  
 West on a true line bet. secs. 13 and 24  
 Descend over land cut up by small dry washes, thru scattering  
 scrub oak, and pine brush, pine, pinon and oak timber.  
 2.50 Ravine, 25 lks. wide, course N.  $20^{\circ} W.$ , asc.  
 9.50 Low ridge, bears N. and S., desc.  
 12.35 Ravine, 10 lks. wide, course N.  $15^{\circ} W.$ , asc.  
 13.50 Ridge, bears N.  $25^{\circ} W.$  and S.  $25^{\circ} E.$  desc.  
 17.25 Ravine, 10 lks. wide, course N.  $20^{\circ} W.$ , asc.  
 20.00 Top of ascent, bears N. and S., thence over table land.  
 30.00 Edge of table land bears N. and S. desc.  
 36.25 Stream of water, 10 lks. wide, course N. asc., gradually.

## Chains

## Subdivision of 4 N., R. 10 W.

39.97 Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S 13  
+  
S 24

and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

44.57 Wire fence bears N. and S., asc. leave brush.

65.80 Top of ascent, bears N. and S. thence over level ground.

65.90 Wire fence, bears N. and S. thence over cultivated field.

71.70 Wire fence, bears N. and S. leave cultivated field; desc.

73.20 Foot of steep desc. bears N. and S.; thence over flat

79.94 The cor. of secs. 13, 14, 23 and 24.  
Land, level and broken, drains N.  
Soil, rocky and sandy; 4th rate.  
Scattering scrub oak and pine brush, scattering oak, pine and pinon timber.  
Cultivated field, 2.80 chains. November 26, 1912.

December 11. At 9h. a.m., l.m.t., I set off  $34^{\circ} 23'$  on the lat. arc;  $22^{\circ} 59'$  S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 35 and 36 on the S. bdy. of the Tp.

Thence I run  
N.  $0^{\circ} 1'$  W. bet. secs. 35 and 36.

Ascend over very steep S.W. slope, thru scattering oak, manzanita and pine brush, scattering pine, oak and pine timber.

15.00 Summit Pleasant View Ridge, bears NW. and SE. desc. over broken N.W. slope.

40.00 The true point for the  $\frac{1}{4}$  sec. cor. falls on a very steep side hill, covered with slide rock, no suitable place for a monument.

41.50 Ravine, 15 lks. wide, course NW. asc.

50.50 Top of spur, bears E. and W., desc. along very steep W. slope.  
Set a granite stone 16 x 10 x 5 ins. 12 ins. in the ground for witness cor. to  $\frac{1}{4}$  sec. cor. marked W.C.  $\frac{1}{4}$  on W. face; from which  
A bull pine, 36 ins. diam. bears S.  $62^{\circ} 35'$  E. 30 lks. dist. marked  
W O  $\frac{1}{4}$  S 36 B T.  
A pine 14 ins. diam. bears N.  $24^{\circ} 50'$  W. 43 lks. dist. marked  
W O  $\frac{1}{4}$  S 35 B T

59.50 Ravine, 20 lks. wide, course W. asc.

69.00 Top of spur, bears NW. and SE., desc. abruptly over very steep N. slope, covered with slide rock.

80.00 Set a shale rock 16x10x6 ins., 12 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and 1 notch on E. edge, from which  
A fir 18 ins. diam., bears N.  $7^{\circ} 30'$  E. 15 lks. dist., marked  
T 4 N R 10 W S 25 B T.  
A bull pine 30 ins. diam., bears S.  $46^{\circ} 30'$  E. 93 lks. dist. marked  
T 4 N R 10 W S 36 B T  
A bull pine 26 ins. diam., bears S.  $21^{\circ} 45'$  W. 75 lks. dist. marked  
T 4 N R 10 W S 35 B T  
A fir 30 ins. diam. bears N.  $71^{\circ} 20'$  W., 210 lks. dist. marked  
T 4 N R 10 W S 26 B T  
Land mountainous.



## Chains

Subdivision of T. 4 N., R. 10 W.

South 15 chains, drains S.

North 65 chains, drains N.

Soil, rocky; 4th rate.

Scattering oak, pine and fir brush.

Timber, scattering oak, pine, pinon and fir.

December 11: At this sec. cor. 1 set off  $23^{\circ} 00'$  S. on the decl. arc, and at 11h. 53m. l.m.t., observe the sun on the meridian, the resulting lat. is  $34^{\circ} 24'$ .  
December 11, 1912.

December 12. At 9h. a.m., l.m.t., I set off  $34^{\circ} 24'$  on the lat. arc;  $23^{\circ} 04'$  S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36.

N.  $89^{\circ} 41'$  E. on a random line bet. secs. 25 and 36.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

79.90

Intersect E. bdy. of Tp. 30 lks. N. of the true point for the cor. of secs. 25, 30, 31 and 36, which is 5.98 chs. N.  $4'$  W. of the witness cor. Thence I run

S.  $89^{\circ} 54'$  W. on a true line bet. secs. 25 and 36.

Ascend abruptly over steep E. slope, thru scattering oak, pine and manzanita brush, scattering pine, oak, fir and pinon timber.

6.25

Top of spur, bears N.E. and S.W. thence desc. over N.W. slope.

December 12. At this point on line, I set off  $23^{\circ} 05'$  S. on the decl. arc; and at 11h. 54m. l.m.t., observe the sun on the meridian; the resulting lat. is  $34^{\circ} 24'$ .

20.00

Head of ravine, 20 lks. wide, course N.E. asc.

26.54

Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for witness cor. to  $\frac{1}{4}$  sec. cor., marked W O  $\frac{1}{4}$  on N. face from which

A pine 12 ins. diam. bears S.  $45^{\circ} 35'$  W. 38 lks. dist. marked W.O.  $\frac{1}{4}$  S 36 B.T.

A pine 16 ins. diam., bears N.  $79^{\circ}$  W. 24 lks. dist. marked W O  $\frac{1}{4}$  S 25 B T

On ridge, bears N. & S. desc. abruptly over granite cliffs and slide rock.

39.95

The true point for the  $\frac{1}{4}$  sec. cor. falls on a steep side hill, no suitable place for a monument.

69.00

Deep ravine, stream 10 lks. wide, course N.W. asc. abruptly.

78.50

Top of spur, bears N. and S. thence desc. along steep W. slope

79.90

The cor. of secs. 25, 26, 35 and 36.

Land mountainous, drains N.

Soil, rocky, 4th rate.

Scattering oak, pine and pinon brush.

Timber, scattering oak, pine and fir.

December 12, 1912.

December 13: At <sup>9h</sup> 10m. a.m. l.m.t., I set off  $34^{\circ} 24'$  on the lat. arc.  $23^{\circ} 08'$  S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 25, 26, 35 and 36.

Thence I run

N.  $0^{\circ} 1'$  W. bet. secs. 25 and 26.