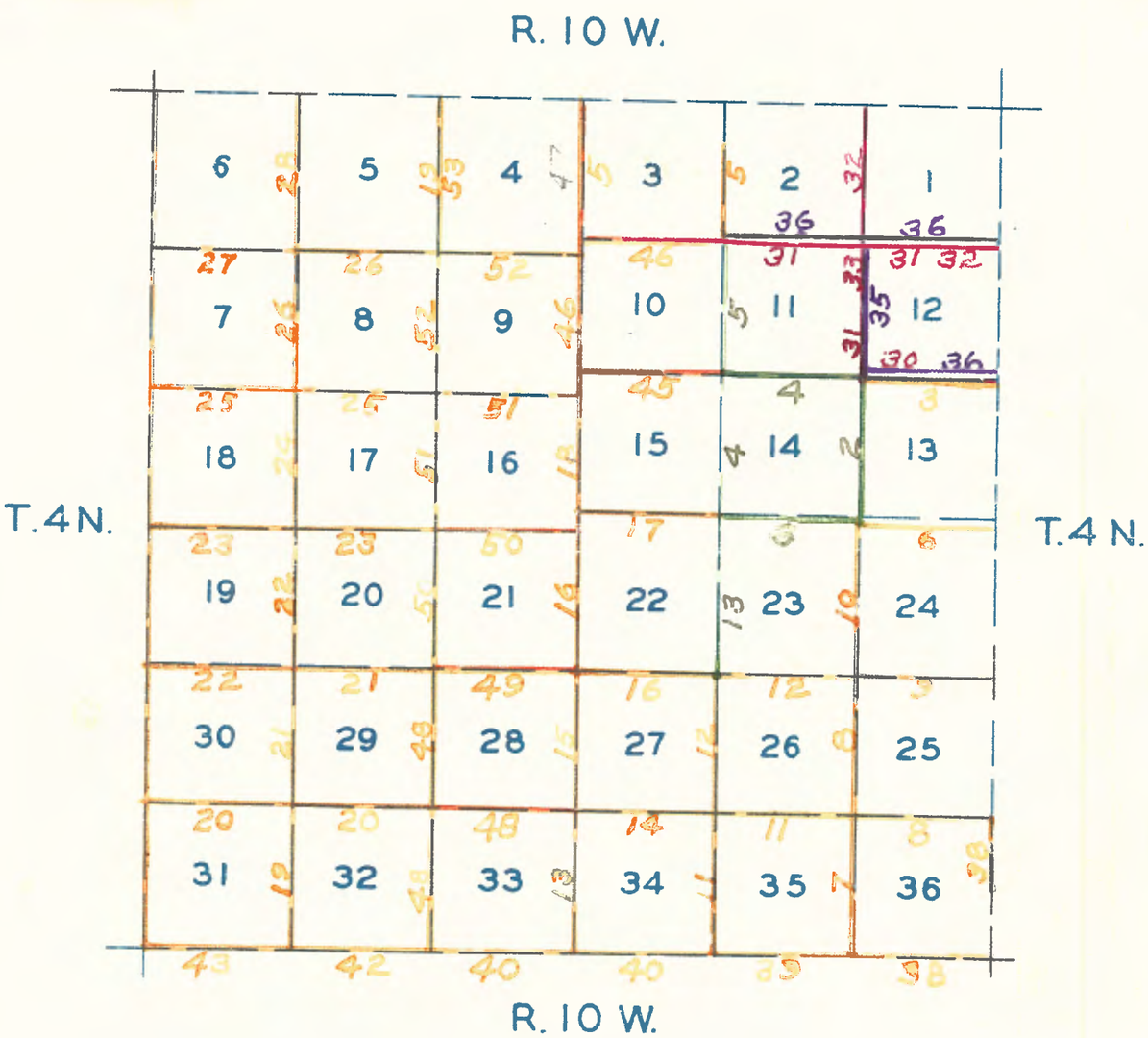
C.S. 9178
Copy

Copied from Photographic Copies

furnished by

U. S. General Land Office
Washington D.C.



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

Chains

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

Survey commenced by N. 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° 27' N., longitude 117°54'W., I set off 34°27'N. on the latitude arc; 20°48'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°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°27' on the lat. arc; 20°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°31'E., and 0'21" 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° 45' W. the angle thus determined gives the magnetic declination 14° 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° 27' N. longitude 117° 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 8h. a.m., l.m.t., I lay off the azimuth of 1° 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° 30' to the right, at the cor. of secs. 11, 12, 13 and 14, from the ¼ sec. cor. bet. secs. 11 and 14, and find that the meridian bears N. 0° 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° 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 14x10x8 ins. above ground, marked ¼ S. on the S.W. and 2 H E S 92 on the S.E. face, with a mound of stone, 2 ft. base, 1½ 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 ¼ sec. cor. which is a juniper post, 4 ins. sq. 12 ins. above a mound of stone, marked ¼ S. 14 on W. and S. 13 on the E. faces, with a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Thence
N. 0° 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 3½ 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° 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.
15.60 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 ¼ sec. cor. bet. secs. 13 and 14.
Thence N. 0° 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 ¼ 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.
80.34 Fall 2 lks. N. of cor. of secs. 12 and 13.
Thence I run
S. 89° 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° E. and N. 70° W. descend over N. 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 ¼ sec. cor. Thence I run N. 89° 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 80 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 sany; 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, pinnon and juniper timber 68.40 chains. November 26, 192

From the cor. of secs. 13, 14, 23 and 24.
S. 89° 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 10x10x6 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, 10x6x6 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 ¼ sec. cor and Cor. No. 2 of H.E.S. No. 94 which is a granite stone 10x6x6 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 ¼ sec. cor. which is a juniper stake 2½ ins. sq. 12 ins. above a mound of stone marked W.S.¼ S. on the N. face. I make a diligent search for the iron post ¼ 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° 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 M.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 M.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 M.E.S. No. 93
13.80 Road bears N. and S.
34.80 Cor. No. 1 of M.E.S.No. 93.
39.76 The ¼ sec. cor. and Cor. No. 2 of M.E.S. No. 94
40.26 The witness cor. to ¼ sec. cor. which is 50 lks. S. 89° 20' W.of the ¼ 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 M.E.S. No. 94.
Land gradually sloping & broken, drains N. and NE.
Soil, sandy and rocky; 3rd and 4th rate.
Scattering oak, pine, pinon 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 ¼ 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 ¼ 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 ¼ 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 ¼ 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 2½ ft. base, 1½ 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

7.50 Dry wash, 50 lks. wide, course N.
26.00 " " 40 " " " "
39.30 The ¼ 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° 1' W. on a random line bet. secs. 10 and 11.
39.96 Fall 42 lks. E. of old ¼ 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 stones.
I destroy this old corner and reestablish the same as follows:
Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11, with brass cap marked

T 4 N R 10 W
S 3 S 2
S 10 S 11

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Thence I run
S. 0° 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 ¼ section.
I continue the same measurement.
Thence I run
S. 0° 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 Burkhart'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. ~~xx~~ 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° 1' W. on a random line bet. secs. 2 and 3.
39.93 Fall 10 lks. west of old ¼ 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.
80.42 Fall 3 lks. E. of cor. of secs. 2, 3, 34 and 35.
Thence I run
S. 0° 12' E. on a true line bet. secs. 2 and 3.
Over level desert, thru scattering oak, pine, juniper and yucca palms.

Chains	
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 ¼ sec. cor.
	Thence I run
	S. 0° 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.

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

From the cor. of secs. 13, 14, 23 and 24, I run
East on a blank line bet. secs. 13 and 24.

40.00	Set temp. ¼ sec. cor.
79.94	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.

T. 4 N.

R 10 W | R 9 W

S 13 | S 18
S 24 | S 19

from which
A bull pine 10 ins. diam., bears S. 40° 15'W. 278 lks. dist. marked T. 4 N., R. 10 W., S 24 B.T.

A bull pine, 24 ins. diam. bears N. 82° 15' W. 250 lks. dist. marked T. 4 N R 10 W, S 13 B T
I return to the temp. ¼ sec. cor. set on the E. bdy. of sec. 13
At 40 chs. S. 0° 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 ¼ sec. cor. of sec. 13, with brass cap marked

S 13 ¼

and raise a mound of stone 2 ft. base, 1½ 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° W., asc.
9.50	Low ridge, bears N. and S., desc.
12.35	Ravine, 10 lks. wide, course N. 15° W., asc.
13.50	Ridge, bears N. 25° W. and S. 25° E. desc.
17.25	Ravine, 10 lks. wide, course N. 20° 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 ¼ sec. cor., with brass cap mkd.

$$\frac{S\ 13}{\frac{1}{4}}$$
$$S\ 24$$

and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
54.57 Wire fence bears N. and S., asc. leave brush.
68.80 Top of ascent, bears N. and S. thence over level ground.
68.90 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° 23' on the lat.arc; 22° 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° 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 ¼ 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 ¼ sec. cor. marked W.C. ¼ on W. face; from which
A bull pine, 36 ins. diam. bears S. 62° 35' E. 30 lks. dist. marked
W C ¼ S 36 B T.
A pine 14 ins. diam. bears N. 24° 50' W. 43 lks. dist. marked
W C ¼ 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° 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° 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° 45' W. 75 lks. dist. marked
T 4 N R 10 W S 35 B T
A fir 30 ins. diam. bears N. 71° 20' W., 210 lks. dist. marked
T 4 N R 10 W S 26 B T
Land mountainous.

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° 00' S. on the decl. arc, and at 11h. 53m. l.m.t., observe the sun on the meridian, the resulting lat. is 34° 24'. December 11, 1912.

December 12. At 9h. a.m., l.m.t., I set off 34° 24' on the lat. arc; 23° 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° 41' E. on a random line bet. secs. 25 and 36.
40.00 Set temp. ¼ 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° 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° 05' S. on the decl. arc; and at 11h. 54m. l.m.t., observe the sun on the meridian; the resulting lat. is 34° 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 ¼ sec. cor., marked W C ¼ on N. face from which
A pine 12 ins. diam. bears S. 45° 35' W. 38 lks. dist. marked W.C.¼ S 36 B.T.
A pine 16 ins. diam., bears N. 79° W. 24 lks. dist. marked W C ¼ S 25 B T
On ridge, bears N. & S. desc. abruptly over granite cliffs and slide rock.
39.95 The true point for the ¼ 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 9h. 10m. a.m. l.m.t., I set off 34° 24' on the lat. arc. 23° 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° 1' W. bet. secs. 25 and 26.

Descend abruptly over very steep N. slope, over slide rock and cliffs, thru scattering oak, pine and manzanita brush, scattering oak, pine, fir and pinon timber.

34.75 Ravine, stream 10 lks. wide, course N.W. asc. over cliffs and slide rock.

37.30 Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for witness cor. to ¼ sec. cor., marked W C ¼ on W. face; from which
A fir, 10 ins. diam., bears S. 45° 15' E., 110 lks. dist., marked
W C ¼ S 25 B T
A fir 12 ins. diam., bears S. 21° 30' W. 68 lks. distmarked
W C ¼ S 26 B T
On top of spur bears E. & W. desc. along very steep slope.

40.00 The true point for the ¼ sec. cor., falls on a very steep W. slope, covered with slide rock, that is very easily set in motion; no suitable place for a monument.

50.00 Ravine 30 lks. wide, course W. asc.

57.00 Top of spur, bears N. 80° W. and S. 80° E. desc.

December 13. At this point on line, I set off 23° 09' S. on the decl. arc; and at 11h. 54m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 25'

64.50 Ravine, 15 lks. wide, course W. asc.

70.00 Top of spur, bears N. 80° W. and S. 80° E. desc.

79.75 Ravine, 10 lks. wide, course N. 70° W., asc.

80.00 Set a granite stone 15x8x8 ins. 12 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges; from which

A bull pine, 30 ins. diam. bears S. 74° 15' E. 150 lks. dist. marked
T 4 N R 10 W, S 25 B T
A live oak 8 ins. diam. bears S. 35° 50' W. 37 lks. dist. marked
T 4 N R 10 W S 26 B T
A live oak 10 ins.diam.bears N 84°50'W 55 lks.dist.marked
T 4 N R 10 W S 23 B T

No other tree available.
Land mountainous, drains N.
Soil, rocky; 4th rate.
Scattering pine, oak, manzanita and pinon brush.
Timber, scattering oak, pine, pinon and fir.

December 13, 1912.

December 14. At 9h. 10m. A.m. l.m.t., I set off 34° 25' on the lat.arc; 23° 12' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26.

N. 89° 54' E. on a random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

79.80 Intersect E.bdy. of Tp. 22 lks. S. of the true point for the cor. of secs. 19, 24, 25 and 30.

Thence I run
S. 89° 45' W. on a true line bet. secs. 24 and 25.
Ascend gradually over broken country, thru scattering pine, pinon, oak and manzanita brush, scattering pine, pinon, oak and fir timber.

.75 Ravine, 30 lks. wide, course N.

19.50 Steep bank, bears N. and S. desc. abruptly.

21.25 Ravine, 25 lks. wide, course N. 15° W. asc. steep rocky E. slope.

Chains — Subdivisions of T. 4 N., R. 10 W.

39.90 Set a shale stone 16x8x6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

48.60 Top of spur, bears N.E. and S.W., thence asc. over very steep N. slope

December 14. At this point on line I set off 23° 13' S. on the decl. arc. and at 11h. 55m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 25'

65.00 Top of spur, bears N. 60° W., and S. 60° E., desc. abruptly over steep W. slope.

79.60 The cor. of secs. 23, 24, 25 and 26.
Land mountainous, drains N.
Soil, rocky; 4th rate.
Scattering oak, manzanita, pinon brush.
Timber, scattering oak, pine, fir and pinon. December 14, 1912.

December 16. At 9h. a.m., l.m.t. I set off 34° 25' on the lat. arc; 23° 18' S. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26.
N. 0° 1' W. on a random line bet. secs. 23 and 24.

40.00 Set temp. ¼ sec. cor.

91.50 Intersect E. and W. line, 9 lks. W. of cor. of secs. 13, 14, 23 and 24, heretofore described.

Thence I run
S. 0° 3' W. on a true line bet. secs. 23 and 24,
Ascend gradually thru scattering oak and manzanita brush

28.60 Road from Burkhart's Ranch to Little Rock, bears N.E. and S.W.

30.00 Trail to Burkhart's Ranch, bears N.E. and S.W.

39.50 Wire fence, brs. E. and W. leave brush; thence across alfalfa field.

44.80 Leave alfalfa field, bears E. and W. thence thru scattering oak and manzanita brush.

51.50 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 23 ¼ S 24

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

From this point B.F. Burkhart's Ranch bears N. 25° 20' E. 13.89 chs. dist.

December 16. At this ¼ sec. cor. I set off 23° 19' S. on the decl. arc; and at 11h. 56m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 26'.

54.50 Irrigation ditch, from reservoir to Burkhart's Ranch, course N.W.

61.00 Foot of mountain, bears E. and W., ascend abruptly.

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

91.50 The cor. of secs. 23, 24, 25 and 26.
Land gradually sloping and mountainous, drains N.
Soil, loam and rock; 2nd and 4th rates.
Scattering oak and manzanitabrush, 86.20 chains.
5.30 chains under cultivation.
Mountainous land 30.50 chains.

December 16, 1912

Chains

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

From the cor. of secs. 34 and 35, on the S. bdy. of the Tp. I run N. 0° 1' W. bet. secs. 34 and 35.
Ascend over steep S. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and manzanita timber.

29.60 Summit Pleasant View Ridge, bears N.W. and S.E.
Set a granite stone 16x10x10 ins. 12 ins. in the ground, for witness cor. to ¼ sec. cor., marked W C ¼ on W. face; from which

A bull pine, 30 ins. diam. bears N. 21° 10' E. 25 lks. dist. marked
W C ¼ S 35 B T
A bull pine, 35 ins. diam. bears N. 8° 30' W., 40 Lks. dist., marked
W C ¼ S 34 B T

Descend over cliffs and slide rock.
40.00 The true point for the ¼ sec. cor. falls on the face of a cliff.
44.00 Ravine, 20 lks. wide, course W. asc. over cliffs and slide rock.
55.90 Top of spur, bears NE. and SW. descends along very steep W. slope
70.00 Ravine, 30 lks. wide, course N.E. asc.
80.00 Set a granite stone 20x12x8 ins., 12 ins. in the ground for cor. of secs. 26,27,34 and 35, marked with 1 notch on S. and 2 notches on E. edge, from which

A fir, 45 ins. diam. bears N. 60° 45' E. 147 lks. dist. marked
T. 4 N., R. 10 W., S 26 B T
A pine 20 ins. diam. bears S. 40° 30' E. 40 lks. dist. marked
T 4 N, R 10 W, S 35 B T
A fir, 30 ins. diam. bears S 41° 45' W, 33 lks. dist. marked
T 4 N R 10 W S 34 B T

No other tree available.
Land mountainous.
South 29.60 chains drains S.
North 50.20 chs. drains N.
Soil, rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 12,1912.

N. 89° 42' E. on a random line bet. secs. 26 and 35.
40.00 Set temp. ¼ sec. cor.
80.20 Intersect N. and S. line 26 lks. N. of cor. of secs. 25,26,35 and 36.
Thence I run
S. 89° 53' W. on a true line bet. secs. 26 and 35.
Descend abruptly over very steep W. slope thru scattering pine, oak and manzanita brush, pine, pinon, oak and fir timber.
30.12 Ravine, stream 20 lks. wide, course N. 10° E. asc. abruptly.
40.10 Set a granite stone 16x10x8 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
62.12 Top of high spur, bears NE. and SW. desc. over NW. slope.
72.00 Ravine, 40 lks. wide, course NE. asc.
80.20 The cor. of secs. 26, 27, 34 and 35.
Land mountainous, drains N.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 13, 1912.

Chains

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

N. 0° 1' W. bet. secs. 26 and 27.
Descend over very steep N. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

40.00 Set a granite stone 18x12x12 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; from which

A bull pine, 20 ins. diam., bears N. 50° E. 22 lks. dist., marked ¼ S 26 B T
A bull pine, 30 ins. diam. bears S. 72° W., 85 lks. dist., marked ¼ S 27 B T

73.10 Ravine, stream 30 lks. wide, course NE. ascend.
80.00 Set an iron post 3 ft. long, 2 ins. dia. 24 ins. in the ground for cor. of secs. 22, 23, 26 and 27, with brass cap mkd.

T 4 N R 10 W

S 22 S 23

S 27 S 26

from which

A pine 9 ins. diam. bears N. 34° 40' E. 63 lks. dist. marked T 4 N, R. 10 W. S 23 B T
A pine 11 ins. diam. bears S. 50° 40' E. 75 lks. dist. marked T 4 N, R. 10 W. S 26 B T
A pine 10 ins. diam. bears S. 42° W. 33 lks. dist. marked T 4 N., R. 10 W. S 27 B T
A pine 8 ins. diam. bears N. 30° 10' W. 54 lks. dist. marked T 4 N, R. 10 W. S 22 B T

Land, mountainous, drains N.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and fir brush.
Timber, scattering oak, pine, pinon and fir. December 14, 1912.

N. 89° 53' E. on a random line bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.
80.05 Intersect N. and S. line 17 lks. S. of cor. of secs. 23, 24, 25 and 26
Thence I run

S. 89° 46' W. on a true line bet. secs. 23 and 26.
Descend over broken N. slope, thru scattering oak and pine brush, scattering oak, pine, pinon and fir timber.

1.50 Ravine, stream 5 lks. wide, course NW. asc.
4.00 Top of spur bears NW. and SE., desc. abruptly NW. and SE., desc. abruptly to canyon.
7.00 Devil's canyon, stream 30 lks. wide, course N. asc. abruptly.
33.54 Ridge bears N. 15° E. and S. 15° W.
Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for witness cor. to secs. cor., with brass cap marked

S 25

¼

S 26

from which

A bull pine, 30 ins. diam. bears S. 61° 35' W. 150 lks. dist. marked W C ¼ S 26 B T

Chains — Subdivisions of T. 4 N., R. 10 W.

A bull pine, 7 ins. diam. bears N. 1° 55' W. 125 lks. dist. marked
W C ¼ S 23 B T

From witness cor. to ¼ sec. cor. Oxby's house bears N. 19° 15' W.
Descend along steep N. slope.

40.00 Head of ravine 10 lks. wide, course N. asc.
40.02½ The true point for the ¼ sec. cor. falls on the side of a very steep hill, not a suitable place for a permanent corner.
45.00 Top of spur, bears N. and S. desc.
53.50 Canyon, 30 lks. wide, course N. asc.
70.00 Top of spur bears N. and S. desc.
76.00 Canyon, stream 30 lks. wide, course N. 10° E., asc.
80.05 The cor. of secs. 22, 23, 26 and 27.
Land mountainous, drains N.
Soil, rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

N. 0° 1' W. on a random line bet. secs. 22 and 23.

40.00 Set temp. ¼ sec. cor.
91.50 Intersect E. and W. line 21 lks. N. of cor. of secs. 14, 15, 22 and 23, heretofore described.
Thence I run
S. 0° 8' W. on a true line bet. secs. 22 and 23.
Over level land.

9.00 Leave level land, bears E. and W.; thence asc. over very steep N. slope thru scattering oak, pine and manzanita brush, scattering oak, pine, pinon and fir timber.
22.00 Top of spur, bears NE. and SW., desc. over slide rock.
From this point on line Oxby's Ranch house bears S. 75° 33' E.
36.00 Ravine 30 lks. wide, course N.E. asc.
51.50 Set an iron post 3 ft. long, 1 in. diam. 24 ins. in the ground for ¼ sec. cor. with brass cap marked

S 22½ S 23

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

63.00 Top of spur, bears E. and W. desc.
84.55 Ravine, 15 lks. wide, course E. asc.
86.00 Top of spur, bears E. and W. , desc.
91.50 The cor. of secs. 22, 23, 26 and 27.
Land level, and mountainous, drains N.
Soil, sandy and rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. September 28, 1917

December 17: At 9h 0h. 15m. a.m., l.m.t. I set off 34° 23' on the lat. arc; 23° 20' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 33 and 34 on the S. bdy. of the Tp.
Thence I run
N. 0° 2' W., bet. secs. 33 and 34.

I don't think he was ever there
V. Dougherty

Chains — Subidivsions of T. 4 N., R. 10 W.

Ascend thru scattering pine, pinon, oak and manzanita brush, scattering oak, pine, pinon and fir timber.

12.00 Top of spur bears S. W. and N. E. asc, over broken S.W. slope.
26.25 Top of spur, bears S. W. and N. E., descend.
31.00 Ravine, 20 lks. wide, course SW. asc.
36.00 Set a granite stone, 16x12x9 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor., marked W C ¼ on W. face,
From which

A pine 12 ins. diam. bears S. 85° E. 34 lks. dist. marked W C ¼ S 34 B T
A pine 18 ins. diam. bears N 20° W. 60 lks. dist. marked W C ¼ S 33 B T

Top of spur bears E. & W. Descend.
40.00 The true point for quarter section cor. falls on a steep side hill
45.50 Ravine, stream 5 lks. wide, course SW. asc. abruptly.
75.00 Top of high spur, bears S.W. and N.E.; thence asc. along very steep W. slope.
80.00 Set a granite stone 16x8x8 ins. 12 ins. in the ground for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge; from which

A bull pine 40 ins. diam. bears N. 1° 15' E. 76 lks. dist. marked T 4 N, R 10 W S 27 B T
A bull pine 30 ins. diam. bears S. 89° 30' E. 105 lks. dist. marked T 4 N R 10 W S 34 B T
A bull pine 30 ins. diam. bears S. 62° W. 150 lks. dist. marked T 4 N, R 10 W S 33 B T
A bull pine 28 ins. diam. bears N. 25° W. 195 lks. dist. marked T 4 N, R 10 W S 28 B T

Land mountainous, drains S and S.W.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

N. 89° 49' E. on a random line bet. secs. 27 and 34.
40.00 Set temp. ¼ sec. cor.
79.80 Intersect N. and S. line 12 lks. N. of cor. of secs. 26, 27, 34 and 35.
Thence I run
S. 89° 54' W. on a true line bet. secs. 27 and 34
Ascend over very steep E. slope, thru scattering pine, oak and manzanita brush, scattering oak, pine, pinon and fir timber.
8.40 Top of spur, bears N. and S., thence asc. over very broken N. slope, covered with slide rock.
December 17. At this point on line, I set off 23° 21' S. on the decl. arc; and at 11h. 56m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 24'.
13.50 Ravine, 10 lks. wide, course N.
26.25 Ravine, 10 lks. wide, course N.
39.59 Head of ravine, 20 lks. wide, course N.
The true point for the ¼ sec. cor. falls in this ravine, no suitable place for monument.
50.00 Summit Pleasant View Ridge, bears N. 80° W. and S. 80° E.
Thence across ridge.

Chains

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

53.00 Set a granite stone 18x10x8 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on N. face; from which

A bull pine 30 ins. diam. bears S. 53° 45' E. 94 lks. dist. marked W C ¼ S 34 B T
A bull pine 28 ins. diam. bears N. 41° 15' W. 49 lks. dist. marked W C ¼ S 27 B T

Thence along S. line of mountain.
75.00 Top of spur bears N. and S. desc.
79.80 The cor. of secs. 27, 28, 33 and 34.
Land mountainous.
East 50 chs. drains N.
W. 29.80 chs. drains S.
Soil rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 17, 1912

December 18. At 9h. a.m., l.m.t. I set off 34° 24' on the lat. arc; 23° 22' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34.
Thence I run N. 0° 2' W. bet. secs. 27 and 28.
Ascend along W. slope of mountain, thru scattering snow brush, scattering oak, pine, pinon and fir timber.

3.60 Top of high spur, bears E. and W. desc. abruptly over very steep N. slope; over slide rock.
23.00 Ravine, 20 lks. wide, course W. asc.
36.00 Top of steep asc. bears E. and W.; thence across level park.
36.40 Set a granite stone 14 x 12 x 6 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on W. face; from which

A bull pine 36 ins. diam. bears S. 62° 30' E. 50 lks. dist. marked W C ¼ S 27 B T
A bull pine 36 ins. diam. bears S. 84° 15' W. 102 lks. dist. marked W C ¼ S 28 B T

37.50 Leave park, bears E. and W. thence asc. steep S. slope over slide rock.
40.00 The true point for the ¼ sec. cor. falls on a steep hillside, no suitable place for monument.
45.00 Summit Pleasant View Ridge, bears NW. and SE. desc. over E. slope.
December 18. At this point on line I set off 23° 23' S. on the decl. arc; and at 11h. 57m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 25'.
53.00 Head of ravine, 10 lks. wide, course E. asc.
59.00 Ridge bears N. 80° E. and S. 80° W., desc. over N. slope
73.00 Head of ravine, 30 lks. wide, course E. asc. steep S. slope.
80.00 Top of spur bears E. and W.
Set a granite stone 36 x 10 x 8 ins., 12 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, from which

A bull pine 16 ins. diam. bears N. 38° 15' E. 122 lks. dist. marked T 4 S R 10 W S 22 B T
A pinon, 24 ins. diam. bears S. 25° 30' E. 58 lks. dist. marked T 4 S R 10 W S 27 B T

Chains

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

A pinon, 15 ins. diam. bears S. 34° 30' W. 75 lks. dist. marked
T 4 S R 10 W S 28 B T
A bull pine, 30 ins. diam. bears N. 38° 10' W. 102 lks. dist.marked
T 4 N R 10 W S 21 B T
Land mountainous.
South 45 chains drains S.
North 35 chains drains N.
Soil rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 18, 1912

December 19. At 9h. a.m. l.m.t. I set off 34° 25' on the lat. arc; 23° 23' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28.

N. 89° 54' E. on a random line bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.
80.15 Intersect N. and S. line 19 lks. S. of cor. of secs. 22, 23, 26 and 27.
Thence I run
S. 89° 46' W. on a true line bet. secs. 22 and 27.
Ascend abruptly steep E. slope, thru scattering oak, pinon, pine and manzanita brush, scattering oak, pine, pinon and fir timber.
35.00 Top of spur, bears NE. and SW., thence across spur.
36.00 Set a pine post 3 ft. long, 3 ins. square, 24 ins. in the ground for witness cor. to ¼ sec. cor., marked W C ¼ S 22 on N. face and 27 on S. face; and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

December 19. At this witness cor. to ¼ sec. cor. I set off 23° 24' S. on the decl. arc and at 11h. 57m., l.m.t. observe the sun of the meridian, the resulting lat. is 34° 25.
Descend from the witness cor. over steep NW. slope
40.07½ The true point for the ¼ sec. cor. falls on a steep NW. slope, no suitable place for ¼ sec. cor.
47.80 Ravine, 20 lks. wide, course NE. asc.
60.70 Top of spur, bears N. and S. desc.
68.90 Ravine, 20 lks. wide, course N.E. asc. abruptly.
80.15 The cor. of secs. 21, 22, 27 and 28.
Land mountainous, drains NE.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 19, 1912.

N. 0° 2' W. bet. secs. 21 and 22.
Descend along steep E. slope, thru scattering oak, pinon, pine & manzanita brush, scattering oak, pine, pinon and fir timber.
7.50 Head of ravine, 10 lks. wide, course N.E. asc.
19.00 Top of spur, bears N. 70° E. and S. 70° W.; thence desc. along N.E. slope.
25.00 Top of spur bears NE. and SW.
35.80 Top of spur bears NE. and SW.
Set a granite 16x6x6 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on E. face, from which

A pinon, 20 ins. diam. bears N. ~~27°~~ 47° 20' E. 50 lks. dist. marked
T 4 N R 10 W S 22 B T
A pinon, 24 ins. diam. bears N. 62° 45' W. 55 lks. dist. marked
T 4 N R 10 W S 21 B T

Desc. N.W. slope.
40.00 The true point for the ¼ sec. cor. falls on a steep N.W. slope, covered with slide rock, no suitable place for a monument.
64.70 Ravine, 20 lks. wide, course N.E. asc.
80.00 Set a granite stone 16x14x10 ins. 12 ins. in the ground for cor.of secs. 16 and 21, marked with 3 notches on N. and S. edges, from which

A pinon, 14 ins. diam. bears S. 81° 15' W. 115 lks. dist. marked
T 4 N R 10 W S 21 B T
A pinon, 18 ins. diam. bears N. 44° 30' W. 146 lks. dist. marked
T 4 N R 10 W S 16 B T

Land mountainous, drains N.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

Resurvey of S. bdy. of sec. 15.
From the cor. of secs. 14, 15, 22 and 23.
I run W. on a random line along the S. bdy. of sec. 15.
40.00 After diligent search, fail to find any evidence of old ¼ sec. cor.

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

I return to the cor. of secs. 14, 15, 22 and 23.
Thence I run
West on a true line bet. secs. 15 and 22.
Ascend gradually over desert land thru scattering sagebrush and yucca palms.
40.00 Set an iron post 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 15
¼
S 22

Dig pits 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high North of corner.
49.75 Dry wash, 10 lks. wide, course N.E.
65.50 Leave level desert, bears N. and S. thence asc. over steep E. slope thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
78.40 Top of spur, bears N. and S. desc.
79.92 Fall 11.35 chs. N. 02' W. of the cor. of secs. 16 and 21.
Set a granite stone 16 x 12 x 6 ins.12 ins. in the ground for cor.of secs. 15 and 22, marked with 3 notches on N. and S. edges, from which

A pine, 8 ins. diam. bears N. 51° 15' E. 82 lks. dist. marked
T 4 N R 10 W S 15 B T
A pinon, 10 ins. diam. bears S. 41° 15' E. 170 lks. dist. marked
T 4 N R 10 W S 22 B T
Land, gradually sloping and mountainous, drains N.
East, 65.50 chains, land gradually sloping.
West, 14.42 chains, land mountainous.
Soil, sandy and rocky; 4th rate.
Scattering pine, pinon, oak and manzanita brush, scattering oak,pine, pinon and fir timber 14.42 chains.

December 20, 1912.

Chains

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

December 21. At 9h. a.m., l.m.t., I set off 34° 26' on the lat. arc; 23° 25' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16 and 21.
Thence I run
N. 0° 2' W. along the E. bdy. of sec. 16
Ascend over S. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

1.50 Top of spur, bears N.E. and S.W.
11.35 The cor. of secs. 15 and 22.
40.00 Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor. of sec. 16, with brass cap mkd. S 16¼

From which

A pinon 12 ins. diam. bears S. 50° 20' W. 175 lks. dist. marked
¼ S 16 B T

No other tree available.
Raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Leave mountains, bear N.E. and S.W.; thence descend over gradual N. slope thru scattering sage brush, junipers and yucca palms.

51.35 Set temp. ¼ sec. cor. for sec. 15.

December 21. At this point on line I set off 23° 26' S. on the decl. arc, and at 11h. 58m., l.m.t., observe the sun on the meridian, the resulting lat. is 34° 26'.

70.50 Old wagon road bears E. and W.
72.40 Dry wash, 15 lks. wide, course N.E.
75.50 Dry wash, 15 lks. wide, course N. 15° E.
79.00 Recross dry wash, 15 lks. wide, course N.W.
80.00 Set an iron post 3 ft. long, 2 ins. dia. 24 ins. in the ground for cor. of secs. 9 and 16, with brass cap mkd.

T 4 N R 10 W
S 9

S 16

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

Land mountainous and gradually sloping, drains N.
Soil rocky and sandy; 4th rate.
Mountainous land and land covered with scattering oak, pine, pinon and manzanita brush, scattering pine, pinon, oak and fir. S.40 chs.
Gradually sloping land and land covered with sage brush and yucca palms.
North 40 chains

December 21, 1912.

Chains

N. 0° 2' W. on a true line bet. secs. 4 and 5.
Along dry wash, desc.

1.00 Leave dry wash, course N.E., thence ascend over broken hills, thru scattering pine, juniper and yucca palms.

9.10 Top of spur, bears N.E., desc.

14.00 Dry wash, 30 lks. wide, course N.E. asc.

26.00 Top of spur, bears N.E. desc.

December 26. At this point on line I set off 23° 16' E. on the decl. arc, and at 12h. 02m. l.m.t., observe the sun on the meridian, the resulting lat. is 34° 28'

33.00 Dry wash, 30 lks. wide, course N.E. asc.

40.00 Set an iron post 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 5 ¼ S 4

and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

40.50 Top of spur bears N.E., desc.

54.20 Dry wash, 20 lks. wide, course N.E. asc.

61.90 Top of spur, bears N.E. desc.

76.00 Middle of dry wash, 200 lks. wide, course N.E. asc.

91.89 Intersect N. bdy. of Tp. 85 lks. E. of cor. of secs. 32 & 33
At the point of intersection, I
Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 4 and 5, with brass cap mkd.

T 5 N R 10 W

S 32 S 33

OC

S 5 S 4

T 4 N R 10 W

and raise a mound of stone, 2 ft. base, 1½ ft. high S. of cor.
Land broken, drains N.
Soil, sandy and rocky; 3rd and 4th rates.
Scattering oak, pine, juniper and yucca palms. December 26, 1912.

From the cor. of secs. 31 and 32, on the S. bdy. of the Tp.
I run
N. 0° 3' W. bet. secs. 31 and 32.
Descend over very steep N. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

24.50 Ravine, 30 lks. wide, course N.E. asc.

30.00 Top of spur, bears N.E. and S.W. desc.

40.00 Set a granite stone 16x10x8 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

51.60 Ravine, 50 lks. wide, course N. 35° W., asc.

80.00 Set a granite stone 16x12x8 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Land mountainous, drains N. Soil rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 27, 1912.

Chains

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

N. 89° 40' E. on a random line bet. secs. 29 and 32.
40.00 Set temp. ¼ sec. cor.
80.16 Intersect N. and S. line 21 lks. N. of cor. of secs. 28, 29, 32 and 33.
Thence I run
S. 89° 49' W. on a true line bet. secs. 29 and 32.
Ascend over steep E. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
25.00 Top of spur, bears N.E. and S.W. desc.
40.08 Set a granite stone 18x12x9 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
45.00 Ravine, stream of water, 15 lks. wide, course N.E. asc.
67.00 Top of spur, brs. N. and S. desc.
80.16 The cor. of secs. 29, 30, 31 and 32.
Land mountainous, drains N.
Soil, rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 28, 1912

December 30: At 9h. 10m., a.m., l.m.t., I set off 34° 24' on the lat. arc; 23° 08' S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32.

S. 89° 40' W. on a random line bet. secs. 30 and 31.
40.00 Set temp. ¼ sec. cor.
86.50 Intersect W. bdy. of Tp. 23 lks. S. of cor. of secs. 25, 30, 31 and 36.
Thence I run
N. 89° 50' E. on a true line bet. secs. 30 and 31
Descend over very steep S.E. slope thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
2.50 Top of spur, bears N.E. and S.W. desc.
20.10 Government trail, bears S.W. and N.E.
22.00 West Fork of Little Rock Creek, 30 lks. wide, course N.E. asc.
23.00 Top of spur, bears S. 80° W. and N. 80° E.; thence asc. abruptly over S.W. slope.
35.70 Top of spur, bears S.W. and N.E.; thence along steep S. slope
43.50 Ravine, 10 lks. wide, course S.W. asc.
46.50 Set an iron post 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor., with brass cap mkd.

S 30
¼
S 31

and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
69.50 Top of spur, bears N.E. and S.W., desc.
86.50 The cor. of secs. 29, 30, 31 and 32.
Land, mountainous, drains N.
Soil, rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 30. At this cor. I set off 23° 08' S. on the decl. arc, and at 12h. 3m., l.m.t., observe the sun on the meridian, the resulting lat. is 34° 23'

December 30, 1912.

Chains

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

N. 0° 3' W. bet. secs. 29 and 30.
Ascend thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

11.50 Top of spur, bears N.E. and S.W. desc.
19.00 Ravine, 20 lks. wide, course N.E. asc.
24.00 Top of spur, bears N.E. and S.W. desc.
40.00 Set a lava stone 30 x 25 x 10 ins., 23 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
43.00 Ravine, 10 lks. wide, course N.E. asc.
60.00 Top of spur bears N.E. and S.W. desc.
66.50 East Fork Little Rock Creek 30 lks. wide, course N.W. asc. over steep S. slope.
80.00 Set a granite stone 18x12x10 ins., 12 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
Land mountainous, drains N.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 30, 1912.

December 31. At 9h. 10m., a.m., l.m.t., I set off 34° 25' on the lat. arc, 23° 4' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence I run N. 89° 49' E. on a random line bet. secs. 20 and 29.

40.00 Set temp. ¼ sec. cor.
80.12 Intersect N. and S. line 10 lks. N. of cor. of secs. 20, 21, 28 and 29.
Thence I run
S. 89° 53' W. on a true line bet. secs. 20 and 29.
Ascend over very steep S. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

8.20 Top of spur, bears N. and S. desc.
15.75 Ravine, 30 lks. wide, course S.W. asc.
19.50 Top of spur, bears N. and S. desc.
37.50 Ravine, 30 lks. wide, course S. asc.
40.06 Set a granite stone 18x12x8 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
54.00 Top of spur, bears N. and S. desc.

December 31. At this point on line I set off 23° 03' S. on the decl. arc, and at 12h. 3m., l.m.t. observe the sun on the meridian, the resulting lat. is 34° 25'

69.40 Ravine, 30 lks. wide, course S.W. asc.
80.12 The cor. of secs. 19, 20, 29 and 30.
Land mountainous, drains SW.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 31, 1912.

January 2, 1913. At 9h. 15m. a.m., l.m.t., I set off 34° 25' on the lat. arc, 22° 54' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.
S. 89° 50' W. on a random line bet. secs. 19 and 30.

40.00 Set temp. ¼ sec. cor.
86.35 Intersect W. bdy. of T. 6 lks. S. of cor. of secs. 19, 24, 25 & 30.
Thence I run
N. 89° 53' E. on a true line bet. secs. 19 and 30.
Descend abruptly over very steep E. slope thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
10.00 Ravine, 10 lks. wide, course N.E. asc.
14.70 Top of spur bears N.E. and S.W. desc. abruptly.
31.50 Government Trail, bears N. and S. descend into ravine.
33.76 Ravine 90 lks. wide. Little Rock Creek 50 lks. wide flows N. asc. steep bank.
41.75 Set an iron post 3 ft. long, 1 in. dia., 24 ins. in the ground for witness cor. to ¼ sec. cor. with brass cap marked

T 4 N R 10 W

S 19

W C ¼

S 30

and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
46.35 The true point for the ¼ sec. cor. falls on the face of a small cliff; no suitable place efr a monument.
50.25 Top of spur, bears N. and S. desc.
57.80 Ravine, 15 lks. wide, course S.W. asc.
86.35 The cor. of secs. 19, 20, 29 and 30.

January 2. At this point I set off 22° 54' S. on the decl. arc and at 12h. 05m., l.m.t., I observe the sun on the meridian, the resulting lat. is 34° 25'
Land mountainous, drains N.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber scattering oak, pine, pinon and fir. January 2, 1913

N. 0° 3' W. bet. secs. 19 and 20.
Ascend steep S. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
16.00 Top of spur bears S.E. and N.W. desc.
26.00 Ravine 20 lks. wide, course S.W. asc.
29.12 Set a granite stone 20x16x10 ins., 15 ins. in the ground for witness cor. to ¼ sec. cor. marked WC ¼ on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
40.00 The true point for ¼ sec. cor. falls on the face of a cliff, impossible to set a cor. at this place.
45.70 Top of spur bears S.W. and N.E. desc.
54.10 Ravine 10 lks. wide, course W. asc.
63.35 Top of spur bears S.W. and N.E. desc.
71.75 Ravine, 20 lks. wide, course S.W. asc.

Chains — Subdivisions of T. 4 N., R. 10 W.

78.90 Top of spur, bears E. and W. desc.
80.00 Set a granite stone 16x9x9 ins., 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Land, mountainous, drains W. and S.W.
Soil rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 31, 1912.

N. 89° 53' E. on a random line bet. secs. 17 and 20.
40.00 Set temp. ¼ sec. cor.
80.11 Intersect N. and S. line 16 lks. N. of cor. of secs. 16,17,20 & 21.
Thence I run
West on a true line bet. secs. 17 and 20.
Ascend over steep N. E. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
15.30 Top of spur bears N.E. and S.W. desc.
21.50 Ravine, 30 lks. wide, course N.E. asc.
35.00 Top of spur bears N. and S. desc.
40.05½ Set a granite stone 14x10x8 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
45.00 Ravine 10 lks. wide, course N. asc.
50.00 Top of spur, brs. N. & S. desc.
57.60 Ravine, 10 lks. wide, course N. asc.
59.80 Top of spur, bears NE. and SW. desc.
68.00 Ravine, 15 lks. wide, course N. asc.
76.50 Top of spur, bears N.E. and S.W. desc.
80.11 The cor. of secs. 17, 18, 19 and 20.
Land mountainous, drains N.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. January 2, 1913.

15.30
6.6
8
9 1 4
1009.8

January 4. At 9h. 10m., a.m., l.m.t., I set off 34° 26' on the lat. arc; 22° 42' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.
S. 89° 53' W. on a random line bet. secs. 18 and 19.
40.00 Set temp. ¼ sec. cor.
86.54 Intersect W. bdy. of Tp. 8 lks. S. of cor. of secs. 13, 18, 19 and 24.
Thence I run
N. 89° 56' E. on a true line bet. secs. 18 and 19.
Ascend abruptly over steep W. slope, thru scattering pine, pinon, and manzanita brush, scattering oak, pine, pinon and fir timber.
7.05 Top of spur, bears N.E. and S.W. desc.
17.20 Ravine, 20 lks. wide, course N.E. asc.
17.50 Government trail, bears N.E. and S.W. asc.
18.70 Enter ravine, course W.; thence asc. along same.
30.38 Set a granite stone 18x12x10 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.
Leave ravine, course W. top of spur bears NW. and SE., desc. over very rough mountain side, covered with slide rock.

Chains

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

Jan. 4. At this witness cor. to ¼ sec. cor. I set off 22° 41' E. on the decl. arc and at 12h. 05m., l.m.t. observe the sun on the meridian; the resulting lat. is 34° 26'

46.54 The true point fo the ¼ sec. cor. falls on a steep hillside, covered with slide rock, no suitable place for monument.
53.20 Ravine, 20 lks. wide, course N. asc.
67.80 Top of spur, bears N.E. and S.W. desc.
74.50 Ravine, 20 lks. wide, course N. asc. along steep N. slope.
86.54 The cor. of secs. 17, 18, 19 and 20.
Land mountainous, drains N.
Soil rocky; 4th rate.
Scattering oak, pine and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

N. 0° 3' W. bet. secs. 17 and 18.
Descend over N. slope thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
3.00 Ravine, 10 lks. wide, course N.W. asc.
7.50 Top of spur, bears E. and W., desc.
12.00 Ravine, 14 lks. wide, course NW. asc.
32.00 Top of spur, bears E. and W. desc.
37.50 Ravine, 20 lks. wide, course W. asc.
40.00 Set a granite stone 18x18x8 ins., 15 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
42.00 Top of spur, bears E. and W. desc.
71.00 Ravine, 20 lks. wide, course NE. small spring bears NE., 2 chs. dist. W. of line, asc.
75.00 Top of spur, bears E. and W. desc.
78.00 Ravine, 10 lks. wide, course N.W. asc.
80.00 Set a granite stone 20x15x16 ins., 15 ins. in the ground for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on S. and 5 notches on E. edge, from which

A pine 9 ins. diam. bears S. 83° 12' E. 39 lks. dist., marked
T. 4 N., R. 10 W S 17 B.T.

No other trees available; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Land mountainous, drains N. Soil rocky; 4th rate.
scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

January 4, 1913.

Jan. 6. At 9h., A.m., l.m.t. I set off 34° 27' on the lat. arc, 22° 29' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

East on a random line bet. secs. 8 and 17.

40.00 Set temp. ¼ sec. cor.
80.08 Intersect N. and S. line 30 lks. S. of cor. of secs. 8, 9, 16 and 17.
Thence I run
S. 89° 47' W. on a true line bet. secs. 8 and 17.
Over gradual E. slope, thru scattering pine, juniper and yucca palms.
4.80 Dry wash, 20 lks. wide, course N.E.
9.00 Middle of dry wash, 2.00 chs. wide, course N.E. asc.
Leave gradual sloping land; thence over E. slope, covered with scattering oak, pine and manzanita brush, scattering oak, pine, pinon and fir timber.
12.50 Top of spur, bears N. and S. desc.
24.80 Ravine, 20 lks. wide, course N.W. asc.
34.00 Top of spur bears N. and S. desc.
38.00 Ravine, 60 lks. wide, course N. asc.
40.04 Set a granite stone 29x12x7 ins. 23 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; from which

A pine 12 ins. diam. bears S. 60° 40' E. 70 lks. dist. marked ¼ S 17 B T
A pine 12 ins. diam. bears N. 89° 45' W. 22 lks. dist. marked ¼ S 8 B T

January 6. At this ¼ sec. cor. I set off 22° 29' South on the decl. arc and at 12h. 06m., l.m.t. observe the sun on the meridian, the resulting lat. is 34° 27'

42.10 Top of spur, bears N.E. and S.W. desc.
54.00 Ravine, 30 lks. wide, course N.E. asc.
65.00 Top of spur, bears N. and S. desc.
74.00 Ravine, 40 lks. wide, course N.E. asc.
77.25 Top of spur, bears N.E. and S.W. desc.
80.08 The cor. of secs. 7, 8, 17 and 18.
Land gradual slope, drains N.
Soil, sandy and rocky; 3rd and 4th rates.
Scattering oak, pine, pinon, juniper and yucca palms.
Timber scattering oak, pine, pinon and fir.
Mountainous land and land covered with timber, 71.08 chs.

January 6, 1913

January 7. At 8h. 31m., a.m., l.m.t. I set off 34° 27' on the lat. arc; 22° 21' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18. Thence I run
S. 89° 56' W. on a random line bet. secs. 7 and 18.

40.00 Set temp. ¼ sec. cor.
86.38 Intersect W. bdy. of Tp. 30 lks. S. of cor. of secs. 7, 12, 13 and 18.
Thence I run
S. 89° 51' E. on a true line bet. secs. 7 and 18.
Ascend over steep W. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
18.70 Top of spur, bears N.E. and S.W. desc.

Chains

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

25.00 Ravine, 30 lks. wide, course N.E. asc.
32.00 Top of spur, bears N.E. and S.W. desc.
46.38 Set a granite stone 18x12x8 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

January 7. At this ¼ sec. cor. I set off 22° 21' S. on the decl. arc and at 12h. 06m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 27'.

47.88 Ravine, 15 lks. wide, course N.E. Government Trail, bears N.E. and S.W. asc.
52.38 Top of spur, bears N.E. and S.W. desc.
59.50 Ravine, 15 lks. wide, course N.E. asc.
69.75 Top of spur, bears N.E. and S.W. desc.
84.00 Ravine, 10 lks. wide, course N.E. asc.
86.38 The cor. of secs. 7, 8, 17 and 18.

Land mountainous, drains N. Soil rocky; 4th rate.
Scattering oak, pinon and manzanita brush.
Timber, scattering oak, pinon, pin and fir. January 7, 1913.

January 8. At 9h. a.m., l.m.t., I set off 34° 27' on the lat. arc, 22° 13' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
Thence I run
N. 0° 3' W. bet. secs. 7 and 8.
Ascend along steep W. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
2.65 Top of spur, bears N.W. and S.E. desc.
10.00 Ravine 10 lks. wide, course N.E. asc.
16.00 Top of spur bears N.E. and S.W. desc.
35.00 Ravine 30 lks. wide, course N.E. asc.
40.00 Set a granite stone 16x12x8 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

January 8. At this ¼ sec. cor. I set off 22° 14' S. on the decl. arc and at 12h. 06m., l.m.t. observe the sun on the meridian; the resulting lat. is 34° 27'
43.75 Ravine, 30 lks. wide, course N.E. asc.
51.00 Top of spur, bears N.E. and S.W. desc.
57.00 Ravine, 30 lks. wide, course W. asc.
80.00 Set a granite stone 16x16x11 ins., 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and 5 notches on E. edge, and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
Land mountainous, drains N. and N.E.
Soil, rocky and sandy, 3rd and 4th rates.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. January 8, 1913.

January 9. At 9h. a.m., l.m.t., I set off 34° 28' on the lat. arc; 22° 05' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.
N. 89° 47' E. on a random line bet. secs. 5 and 8.
40.00 Set temp. ¼ sec. cor.

Chains

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

80.11 Intersect N. and S. line, 12 lks. N. of cor. of secs. 4, 5, 8 and 9.
Thence I run

S. 89° 52' W. on a true line bet. secs. 5 and 8.
Over level land, thru scattering pine, juniper and yucca palms.

Descend.

.30 Leave dry wash, course N.E. asc.
4.00 Top of low spur, bears N.E. and S.W. desc.
10.25 Dry wash, 40 lks. wide, course N.E. asc.
12.50 Top of low spur bears N.E. and S.W. desc.
16.00 Dry wash, 40 lks. wide, course N.E. asc.
22.00 Top of low spur bears N.E. and S.W. desc.
27.00 Dry wash, 20 lks. wide, course N.E. asc.
34.00 Top of low spur, bears N.E. and S.W. desc.
40.05½ Set an iron post 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 5
¼

S.8

dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.

40.50 Dry wash, 15 lks. wide, course N. asc.
44.80 Top of low spur, bears N.E. and S.W. desc.
58.70 Dry wash, 30 lks. wide, course N.E. asc.
61.10 Top of low spur, bears N.E. and S.W. desc.
66.20 Dry wash, 20 lks. wide, course N. asc.
68.90 Old road bears N.W. and S.E.
76.00 Top of spur, bears N. and S. desc.
80.11 The cor. of secs. 5, 6, 7 and 8.
Land broken, drains N. and N.E. Soil rocky and sandy; 4th rate.
Scattering pine, juniper and yucca palms.

N. 89° 51' W. on a random line bet. secs. 6 and 7.

40.00 Set temp. ¼ sec. cor.
86.25 Intersect W. bdy. of Tp. 21 lks. N. of cor. of secs. 1,6,7 and 12.
Thence I run
East on a true line bet. secs. 6 and 7.
Descend over broken E. slope, thru scattering juniper, pine and yucca palms.

11.25 Dry wash, 40 lks. wide, course N.E. asc.
21.00 Top of spur, bears N.E. and S.W. desc.

January 9. At this point on line I set off 22° 05' S. on the decl. arc and at 12h. 7m., l.m.t. observe the sun on the meridian; the resulting lat. is 34° 27'

46.25 Set a granite stone 18x10x9 ins, 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face and raise a mound of stone 2 ft. base, 1½ ft. N. of cor.
47.75 Dry wash, 30 lks. wide, course N.E. asc.
60.35 Top of spur, bears N.E. and S.W. desc.
65.75 Dry wash, 30 lks. wide, course N.E. asc.
78.45 Old road, bears N.W. and S.E.
84.15 Top of spur, bears N.E. and S.W. desc.

Chains

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

86.25 The cor. of secs. 5, 6, 7 and 8.
Land broken and hilly; drains N. and N.E.
Soil sandy and rocky, 4th rate.
Scattering pine, juniper and yucca palms. January 9, 1913

January 10. At 9h. 10m. a.m., l.m.t., I set off 34° 27' on the lat. arc; 21° 56' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.

Thence I run
N. 0° 3' W. on a true line bet. secs. 5 and 6.
Ascend over low broken hills, thru scattering juniper, pine, pinon, and yucca palms.
4.50 Top of low spur, bears N.W. and S.E. desc. over low broken hills.
13.20 Old road, bears N.W. and S.E.
21.70 Dry wash, 30 lks. wide, course N.W. asc.
35.60 Top of low spur, bears N.W. and S.E. desc.
40.00 Set an iron post 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd. S 6 ¼ S 5

Dig pits 18x18x12 ins. N. and S. of post 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor.

January 10. At this ¼ sec. cor. I set off 21° 56' S. on the decl. arc and at 12h. 4m., l.m.t. observe the sun on the meridian; the resulting lat. is 34° 28'

67.50 Dry wash, 30 lks. wide, course N.E. asc.
75.00 Top of spur, bears N.E. and S.W. desc.
92.20 Intersect N. bdy. of Tp. 60 lks. E. of cor. of secs. 31 and 32.
At the point of intersection, I
Set an iron post 3 ft. long 2 ins. dia. 24 ins. in the ground for closing cor. of secs. 5 and 6, with brass cap mkd.

T 5 N R 10 W
S 31 S 32
C. C.

S 6 S 5
T 4 N R 10 W

and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.
Land broken, drains N. Soil rocky; 4th rate.
Scattering pine, pinon, juniper and yucca palms. January 10, 1913.

General Description

The land contained within the boundaries of this township is mountainous and rolling. The soil is of two kinds, rocky and sandy loam.
The southeast corner of the township is located on a high ridge. The south boundary runs along the south slope of a high mountain range, crosses the east fork of Little Rock Creek, a high ridge. Then the south fork of Little Rock Creek ascends and terminated in the southwest corner of the township, which is located on a very steep east slope at a distance from and at a height of about 1500 ft. above the South Fork of Little Rock Creek.

Pleasant View Ridge, the divide between Little Rock and Big Rock Creeks, enters the township at a distance of about a quarter of a mile north of the southeast corner of the township, at an altitude of nearly 5000 ft; extends in a northwesterly direction gradually diminishing in altitude until the once well defined ridge is lost in the surrounding foot hills.

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

From Pleasant View Ridge the land slopes north and at a distance of about two miles and a half from the south boundary, the mountains break away and give place to low rolling hills and level land that stretches to the north boundary.

The mountains are rough and rocky and are covered with a dense growth of pine, fir, oak and manzanita and snow brush and scattering pine, fir and oak timber.

South of Pleasant View Ridge, the land drains south into Little Rock Creek, while to the north of this ridge, the land drains north.

There are several streams of water flowing from Pleasant View Ridge, the waters of which are turned into reservoirs, from which they are drawn to be used in irrigating the several claims that have been taken up at the foot of the mountains.

The soil at the base of the mountains is rich and under irrigation; produces a very fine crop of apples.

There are two settlers in Sec. 23 and one in Sec. 24.

N. J. Burnham, Temporary Transitman
A. Parker Warner, U. S. Transitman

Certificate of Assistants

We the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, N. J. Burnham, Temp. Transitman, A. Parker Warner, U. S. Transitman, in the capacity of U. S. Surveyors during the periods and in the capacities stated opposite our several signatures, in surveying, resurveying and retracing all those parts or portions of the Subdivisions of Township Seven South, Range No. Six West, and Township Eight South, Range Six West, and Tp. 4 North, Range 10 West, of the San Bernardino Base and Meridian, in the State of California which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Name	Period of Service Begun	Ended	Capacity
A. Parker Warner			Transitman
W. J. Cox	Sept. 12, 1912	Jan. 5, 1913	Head Chainman
L. K. Watt	Sept. 13, 1912	Jan. 5, 1913	Rear Chainman
A. B. Gregory	Sept. 23, 1912	Jan. 5, 1913	Head Chainman
Howard Franklin	Sept. 20, 1912	Jan. 5, 1913	Rear Chainman
A. L. Bailey	Sept. 19, 1912	Jan. 5, 1913	Flagman
H. P. Beckett	Sept. 16, 1912	Jan. 5, 1913	Flagman
T. J. Munan	Sept. 17, 1912	Jan. 5, 1913	Moundman
Chester Brown	Sept. 19, 1912	Jan. 5, 1913	Moundman
O. D. Keese	Oct. 2, 1912	Jan. 5, 1913	Axman

Subscribed and certified to before me on the dates of the final services as shown above.

N. J. Burnham, Temporary Transitman
U. S. Surveyor
A. Parker Warner, U. S. Transitman

Subdivisions of T. 4 N., R. 10 W.
S. B. M.

Survey commenced July 18, 1904 and executed with a Heller and Brightly transit No. 4690.
The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc.

The instrument was adjusted, thoroughly tested and found correct before commencing the work.

I proceed to the cor. of secs. 11,12,13 and 14, Tp.4 N.,R.10 W., S.B.M., and finding it impracticable to observe Polaris from the corner, I establish a station 10 ft. N. of J.T.Mathes' house in the N.E. ¼ of sec. 11, Latitude 34° 26' N. Longitude 117° 53' W., by carefully centering my instrument over a stake driven in the ground with tack center, and at 11:40 P.M., l.m.t., I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determine by a tack in stake driven in the ground at 4 chs. N. of my station.

July 19, 1904. At 7 A.M., l.m.t., I lay off the azimuth of Polaris 1° 28' to the west and mark the meridian thus determined with stake and tack west of the point already established. I find the magnetic bearing of the true meridian to be N. 15°40' W. The angle thus determined gives the mag. decl. 15° 40' E.

At this point I deflect from the true meridian thus established and carry a blank line for course to the cor. of secs. 11,12,13 and 14, a juniper post 3½ inches diam., plainly marked as described by the Surveyor General in an irregular mound of stone 3½ ft. diam. at base, 1 ft. high with 4 bearing trees (for description see Book B, p); thence from said cor.

Book B. p. 1

East on a random line between secs. 12 and 13.

40.00 Set temp. ¼ sec. cor.
July 19th, 1904.

80.34 Intersect Tp. line 30 lks. S. of the cor. of secs. 12 and 13, an oak post 4 ins. sq., marked and witnessed as described by the Surveyor General; thence I run S. 89° 47' W. on a true line bet. secs. 12 and 13, along a rough ridge.
34.51 Top of high spur course S. 10° W. and N. trending west.
40.10 Cross Sandy Gulch, course S. 40° W.
40.17 Set a 4 x 4 redwood post, 3 ft. long, 24 ins. in the ground, marked ¼ S 12 on N and 13 on S. face

Book B. p. 2

In lieu of pits I raised an irregular mound of granite stone 2½ ft. diam. at base around post.
Along steep side hill sloping S.W.
55.34 Gulch, course S. 10° W.
68.83 Foot of hill, course S.E. and N.W.
71.08 Dry wash, course N. 45° W.
72.42 Across dry wash to foot of bank.
72.62 Top of bank and across level bottom.
80.34 To corner of sections 11,12,13 and 14.
Land mountainous and level.
Soil, sandy; 3rd rate little vegetation.
Bottom land thickly studded with yucca and scrub cedar last 7.72 chains
Mountainous land, 68.83 chs. July 20th, 1904.

From the cor. of secs. 11, 12, 13 and 14, previously described
North on a random line between secs. 11 and 12.

40.00 Set temp. ¼ sec. cor.
80.00 Set temp. cor. Although I make carefully and diligent search I can find no trace of the cor. of secs. 1, 2, 11 and 12 described by the Surveyor General.

"Sec. post and charred stake in swamp."

This place is now a dense willow grove.

July 21st, 1904

I now proceed to the cor. of secs. 1, 6, 7 and 12
a sycamore post marked and witnessed as described by the Surveyor General and run
West on a random line between secs. 1 and 12.
To avoid cutting more than one line through a dense intervening willow grove, I place instrument on high ridge, 6 chs. east from the cor. to secs. 1, 6, 7 and 12, from which point the cor. to secs. 2, 3, 10 and 11, previously flagged is plainly visible.
A line drawn between these two corners I carry through on fore and back sights.
40.04 Book B. p.4 To ¼ sec. cor. a cedar post 3 inches diam. in good state of preservation marked and witnessed as described by the Surveyor General.
80.00 To point for cor. of secs. 1, 2, 11 and 12, I make another search but find no corner. Set temp. cor.

July 22nd, 1904.

I continue west between secs. 2 and 11.
80.22 In passing temp. cor., previously set (See page 2)
I check my course on the N. and S. line and find it to be correct.
120.00 Point for ¼ sec. cor., I find no trace of corner;
set temp. ¼ sec. cor.
160.16 Intersect corner of secs. 2, 3, 10 and 11, a cedar post 3 inches diam. marked and witnessed as described by the Surveyor General, from which corner I run

East on a true line between secs. 2 and 11.

17.38 Old fence, course N. and S. and enter field. July 23rd, 1904.

40.04 Book B. p.3 Set a 4 x 4 redwood post 3 ft. long, 2 ft. in the ground marked ¼ S 2 on N. and 11 on S. face, and dig pits 18x18x12 ins. east and west of post 3 ft. dist. from which a willow tree 12 ins. in diam., mkd. ¼ S. 2 B. T. bears N. 45° W. 9 lks. dist.

40.28 Fence, course N. and S.
50.92 The N. E. cor. of J. T. Mathes' house bears S. 7° 12' W. 7.65 chains distant.
56.92 A fine spring bears N. 0° 07' E. 5 chains distant.
62.92 Leave field and enter willow grove.
67.56 Wire fence, course N. 88° W.
69.07 Wire fence, course N. and S.

80.06 Book B. p. 1 Set 4 x 4 redwood post 3 ft. long 2 ft. in the ground marked

T 4 N S 1 on N.E.
R 10 W S 12 on S.E.
S 11 on the S.W.
S 2 on N.W. face for cor. of secs. 1, 2, 11 and 12 with 5 notches on S. and 1 on E. edge, raised a mound of earth, 4 ft. base and 2 ft. high W. of post and dug pits 18x18x12 inches in each section with 4 bearing trees (for description see Book B p. 2)

Book B. p. 2

From this corner the point of my observation of Polaris bears S. 76° 45' W. 31.13 chains distant.

Land, first 17 chains, gentle east slope, gravelly.
2nd rate; last 63.06 chains, bottom land, sandy loam, 1st rate.
Some scattering yucca palms and scrub cedar in first 17 chains.

July 25th, 1904

From the cor. of secs. 1, 2, 11 and 12, previously described, I run East on a true line between secs. 1 and 12, through dense willow grove.

1.96 To willow tree 24 in. diam.
3.41 Book B. p. 4 To willow tree 16 in. diam.
4.17 To a willow tree 24 in. diam.
5.94 To a willow tree 9 in. diam.

28.00 Leave willow grove.
40.04 To ¼ sec. cor., previously described.
Book B. p. 4 (for description of ¼ sec. cor. see Book B, p. 4)

53.00 Gulch or barranca 20 ft. deep, 75 ft. wide, course N. 70° E.
73.08 Wagon road, course N. 20° E. and S. 20° W.
80.06 To the cor. of secs. 1, 6, 7 and 12, previously described.
Land nearly level.
Soil 1st. 25 chains sandy loam, 1st rate; last 52.06 chains gravelly, 2nd rate. Some scattering yucca last 27 chains.

July 26th, 1904

From the cor. of secs. 1, 2, 11 and 12 previously described.
North on a random line between secs. 1 and 2.

40.00 Set temp. ¼ sec. cor., after making careful and diligent search for ¼ sec. cor., described by the Surveyor General.

80.06 Intersect cor. of secs. 1, 2, 35 and 36, a cedar post marked and witnessed as described by the Surveyor General.
From which corner I ran
South on a true line between secs. 1 and 2
4.33 Wagon road, course S. 15° E. and N. 15° W.
25.49 Wagon road, course S. 70° E. and N. 70° W.
40.25 Set a 4 x 4 redwood post, 3 ft. long, 2 ft. in the ground, marked ¼ on W. face. Dig pits 18x18x12 inches N. and S. of post, 3 ft. dist. and raise a mound of small stone around post 2 ft. base, and 1 ft. high, across mesa gently sloping north.
62.69 Brow of hill.

Chains — Resurvey of Subdivision T. 4 N., R. 10 W., S. B. M.

74.00 Wire fence at foot of hill, course N. 80° W. and S. 80° E.
74.35 Enter dense willow grove.
80.06 To the cor. of secs. 1, 2, 11 and 12.
Land mesa.
Soil, sandy, 2nd rate.
Some scattering yucca palms. July 27th, 1904.

From the cor. of sections 1, 2, 11 and 12, which is 16 lks. S. and 14 lks. east of temp. corner described on page 3, S. 0° 06' W. on a true line between 11 and 12.

2.35 Book B. p. 2 To a willow tree 18 in. dia.
5.51 To a willow tree 8 ins. dia.
9.57 To south side of willow grove course east and west.
11.16 Wagon road, course east and west.
12.29 Foot of hill and ascend.
Up rough mountain slope facing N.
38.00 Sandy gulch, course N.E.
39.92 Set 4 x 4 redwood post 3 ft. long, 2 ft. in the ground.

Book B. p. 2 For ¼ sec. cor. marked ¼ S 11 on W. and 12 on E. face.

I raise a mound of granite stone around post 2½ ft. diam. at base.

Note: The mound of stone around this ¼ sec. cor. post is irregular in shape and does not cover the letters.

Pits omitted on account of sandy soil.

From which a Yucca tree 8 in. diam. bears N. 38 3/4° E. 55 lks. dist., marked ¼ S 12 B T

Book B. p. 2 A juniper tree in a clump of junipers trees 8 ins. diam. bears S. 13½° W. 47 lks. dist. marked ¼ S. 11 B. T.

50.64 Up slope to brow of hill.

54.13 Top of hill, course N. 75° W. and S. 45° E. and descend along steep side hill sloping S.W.

69.28 Foot of hill.
73.22 Dry gulch, 30 lks. wide, course N. 80° W.
73.82 Foot of bank.
74.51 Top of bank and across level plain.
79.84 To the cor. of secs. 11, 12, 13 and 14.
Land mountainous and level.
Soil, sandy, 2nd rate; 1st 12 chains sandy loam, 1st rate.
Some scattering scrub cedar.
Mountainous land, 56.99 chains.

July 29, 1904.

William W. Allen, U. S. deputy Surveyor

Secs. 11 and 12, T. 4 N., R. 10 W., S. B. M.

General Description

This township, or that portion embraced in this survey contains three varieties of land. The mountain, mesa and valley or bottom land. The mesa and mountain portion at this season of the year is simply a barren waste; nothing in the shape of vegetation save an occasional stunted cedar and scattering yuccas; but the bottom land, although forming a very small portion of the whole is very rich, and where possible to irrigate, is wonderfully productive. Of this class is the northern portion of John T. Mathes' claim, in Sec. 11, in whose interest this survey is made. There is no other white resident nor are there any Indians in this part of the township.

The Cienega or swamp alluded to in the original notes furnished by the Surveyor General, having been drained by a deep gulch, now dry, formed at eastern end is now a dense willow grove ranging in size from a small sprout to trees 2 ft. in diameter.

It is twenty miles from Mathes' place to the nearest town, Palm Dale, and twentyfive miles, Lancaster, to the nearest Justice of Peace, which made it necessary for me to administer the oaths to my assistants.

William W. Allen, U. S. Deputy Surveyor

Supplemental Field Notes

Subdivision of T. 4 N., R. 10 W., S.B.B. and M.

Survey commenced September 14, 1905, and executed with a Heller and Brightly Transit No. 4690, previously described at the established
Book 9. p. 1 cor. of Secs. 11, 12, 13 and 14, which is a cedar juniper post 3½ ins. diam. plainly marked as described by the Surveyor General, in an irregular mound of stone, 3½ ft. diam. at the base and 1 ft. high, and from which

A (cedar) juniper tree 9 ins. diam. in a clump of juniper trees bears N. 52½° E. 79 lks. dist. with old mark T 4 N, R 10 W S 12 B T

A juniper tree 5 ins. diam. in a clump of juniper trees bears S. 64½° E. 26 lks. dist. marked T 4 N R 10 W S 13 B T

A juniper tree 9 ins. diam. in a clump of juniper trees bears S. 15½° W. 47 lks. dist. marked T 4 N R 10 W S 14 B T

A juniper tree 10 ins. diam. in a clump of juniper trees bears N. 45° W. 1.20 chs. dist. marked T 4 N R 10 W S 11 B T

Note: I found this corner in a good state of preservation with one bearing tree in Sec. 12, as per official notes.
The bearing tree in Sec. 14, I could not find, though I made diligent search. September 14, 1905.

Book 9. p. 4 I now proceed to the corner of secs. 1, 2, 11 and 12, which I set July 25, 1904, and reestablish it by setting a redwood post 3 ft. long, 4 ins. square 24 ins. in the ground marked
T 4 N S 1 on N E
R 10 W S 12 on S E
S 11 on S W and
S 2 on N.W. face with 5 notches on

the S. and 1 notch on E. edge, dig pits 18x18x 12 ins., and raise a mound of earth 4 ft. base and 2 ft. high W. of corner, from which

Book 9. p. 4 A willow tree 6 ins. diam. bears N. 52½° E. 14 lks. dist. marked T 4 N R 10 W S 1 B T

A willow tree 9 ins. diam. bears S. 40° E. 25 lks. dist. marked T 4 N R 10 W S 12 B T

A willow tree 7 ins. diam. bears S. 55 3/4° W. 74 lks. dist. marked T 4 N R 10 W S 11 B T

A willow tree 6 ins. diam. bears N. 29½° W. 9 lks. dist. marked T 4 N R 10 W S 2 B T

Thence I run
S. 0° 06' W. between secs. 11 and 12, marking and blazing true line.
2.35 Book 9. p. 6 To a willow tree 18 ins. diam.
5.51 To a willow tree 8 ins. diam.
39.92 Reset a redwood post 3 ft. long, 4 ins. square, 24 ins. in the ground for ¼ sec. cor. marked ¼ S 11 on W. 12 on E face, and raise a mound of granite stone 2½ ft. diam. at base around post, pits impracticable; from which

A yucca tree 8 ins. diam. bears N. 38 3/4° E. 55 lks. dist. marked ¼ S 12 B T

A juniper tree 8 ins. diam. in a clump of juniper trees bears S. 13½° W. 47 lks. dist., marked ¼ S 11 B T

Note: The mound of stone around the ¼ sec. cor. post is irregular in shape and does not cover the letters.
79.84 To the cor. of secs. 11, 12, 13 and 14 previously described.
September 15, 1905

Subdivision of T. 4 N., R. 10 W., S.B.B. and M.

From the established cor. of secs. 12 and 13, which is an oak post 4 ins. square, marked and witnessed as described by the Surveyor General.
S. 89° 47' W. between secs. 12 and 13, marking and blazing true line.

40.17 Book A. p. 2 Result redwood post 3 ft. long, 4 ins. square, 24 ins. in the ground for ¼ sec. cor. marked ¼ S. 12 on N and 13 on S. face, and raised an irregular mound of granite stone 2½ ft. diam. at base around post which is on the west bank of a gully 5 lks. wide, course S.W., pits impracticable; and from which

A scrub live oak tree 6 ins. diam. bears N. 71¼° E. 33 lks. dist. marked ¼ S 12 B T

A juniper tree 10 ins. diam. in a clump of juniper trees, bears S. 50¼° W. 35 lks. dist. marked ¼ S 13 B T

80.34 To the cor. of secs. 11, 12, 13 and 14 previously described.

September 15, 1905.
William W. Allen, Deputy U. S. Surveyor

From the established cor. of secs. 2, 3, 10 and 11, which is a (cedar) juniper post 3 ins. diam. marked and witnessed as described by the Surveyor General.
East between secs. 2 and 11 marking and blazing true line.
40.04 Book A. p. 3 To the ¼ sec. cor. set by me July 25, 1904, which I reestablish by setting a redwood post 3 ft. long, 4 ins. square 24 ins. in the ground, marked ¼ S 2 on N and 11 on S face, dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. from which

A willow tree 12 ins. diam. bears N. 45° W. 9 lks. dist. marked ¼ S 2 B T

80.08 To the cor. of secs. 1, 2, 11 and 12, previously described.

From the cor. of secs. 1, 2, 11 and 12 previously described.
Book A. p. 4 East between secs. 1 and 12, marking and blazing true line.
1.96 To a willow tree 24 ins. diam.
3.41 To a willow tree 16 ins. diam.
4.17 To a willow tree 24 ins. diam.
5.94 To a willow tree 9 ins. diam.
40.04 Book A. p. 4 To the ¼ sec. cor. a juniper stake. I reestablish this corner by setting a redwood post 3 ft. long, 4 ins. square, 24 ins. in the ground for ¼ sec. cor. marked ¼ S 1 on N., and 12 on S. face, dig pits 18x18x12 ins. E. and W. of post 3 ft. dist. and raise an irregular mound of rock 2½ ft. diam. at base around post, from which

A yucca tree 8 ins. diam. bears N. 59½° E. 2.13 chs. dist. marked ¼ S 1 B T

A yucca tree 10 inches diam. at foot of low hill, bears N. 24° W. 2.38 chs. dist. marked ¼ S 1 B T

80.08 To the corner of secs. 1, 6, 7 and 12, marked and witnessed as described by the Surveyor General. September 16, 1905

Report

In this supplemental survey, I was assisted by Albert G. Ruxton, a surveyo of over 30 years practice in Government work, and have

endeavored to the best of my ability to carry out the instructions embodied in Department letter "E" dated Aug. 12, 1905.

The mound of rock placed around ¼ sec. cor. posts are irregular in shape and would average 1 ft. above ground, but do not cover the letters.

Rocks placed around posts protect them from the action of the elements.

William W. Allen
Deputy U. S. Surveyor.

Chains

Retracement of portion of E.bdy.of T.4 N., R. 10 W.,S.B.M.

Abruptly over very steep N. slope covered with slide rock
Thence I run
N. 10° W. on true line bet. secs. 31 and 36.
5.15 Ravine 20 lks. wide, course E. Ascend along steep E. slope.
18.00 The true point for ¼ sec. cor. falls on steep E. slope.
Not a suitable place for cor.
51.87 The witness cor. of secs. 25, 30, 31 and 36.
Land mountainous, drains S.E. and N.
Soil rocky; land covered with slide rock.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 3, 1912.

Retracement of N. bdy. of T.3 N., R. 9 W., S. B. M.

December 4. At 9h. a.m., l.m.t., I set off 34° 23' on the lat. arc; 22° 14' S. on the decl arc and determine a meridian with the solar at the closing cor. of T. 4 N., Rs. 9 and 10 W.

The cor. of T. 3 N., Rs. 9 and 10 W. being plainly visible, I run S. 89° W. on a true line along the N. bdy. of sec. 6, T. 3 N., R. 9 W.

5.90 The cor. of T. 3 N., Rs. 9 and 10 W., which is a pine post 6 ins. square in a large mound of stone marked and witnessed as described by the Surveyor General.

Resurvey of N. Bdy. of T. 3 N., R. 10 W.

From the cor. of T. 3 N., Rs. 9 and 10 W., I run
S. 89° 51' W. on a random line along the N. bdy. of Sec. 1, T. 3 N., R. 10 W.
40.00 After diligent search I fail to find any evidence of old sec. cor.
81.70 Fall 24 lks. N. of old cor. of secs. 1, 2, 35 and 36, which is a pine post 4 ins. square firmly set in a mound of stone marked and described by the Surveyor General.

This cor. now becomes the cor. of secs. 1 and 2, T. 3 N., R. 10 W., I therefore destroy all markings on the post referring to T. 4 N., R. 10 W., and raise a mound of stone 3 ft. base, 2 ft. high S. of cor.

Thence I run
N. 89° 41' E. on a true line along the N. bdy. of Sec. 1
Descend over very steep S.E. slope through scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

7.60 Set a granite stone 16x12x10, 12ins. in the ground for cor. to secs. 35, and 36 of T. 4 N., marked with one notch on E. and 5 notches on W. edge from which

A Bull Pine 36 in. dia. bears N. 46° 20' E. 90 lks. dist.
marked T. 4 N., R. 10 W. S 36 B T
A Bull Pine 16 ins. diam. bears N. 15° 20' W. 120 lks. dist.
marked T. 4 N., R. 10 W S 35 B T

25.80 Ravine 15 lks. wide, course S.W. Ascend.
34.20 Top of spur bears N.E. and S.W. Descend.

December 4. At this point I set off 22° 16' S. on the decl. arc and at 11h. 50m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 23'

Chains

Resurvey of N. Bdy. of T. 3 N., R. 10 W.

40.85 Set a granite stone 18x16x12 ins. 12 ins. in the ground for ¼ sec. cor. of sec. 1 of T. 3 N., marked ¼ on N. face, from which

A bull pine 18 ins. dia. bears S. 76° 15' E. 130 lks. dist. marked ¼ S. 1 B. T.
A bull pine 26 in. dia. bears N. 60° W. 70 lks. dist. marked ¼ S. B. T.

47.60 Set a granite stone 14x9x6 ins. 10 ins. in the ground for ¼ sec. cor. of sec. 36, T. 4 N., marked ¼ on N. face from which

A bull pine 12 in. dia. bears N. 26° 15' E. 150 lks. dist. marked ¼ S. 36 B. T.
A bull pine 16 ins. diam. bears N. 34° 30' W. 50 lks. dist. marked ¼ S. B. T.

62.00 Ravine 30 lks. wide, course S. Ascend steep N. slope.
81.70 The cor. of T. 3 N., Rs. 9 and 10 W.
Land mountainous; drains S. and S.W.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 4, 1912

December 5. At 9h. 45m. a.m., l.m.t. I set off 34° 23' on the lat. arc; 22° 22' S. on the decl. arc and determine a meridian with the solar at the cor. of Secs. 1 and 2 of T. 3 N.
Thence I run
S. 89° 51' W. on a random line along the N. bdy. of Sec. 2.
40.00 After diligent search fail to find any evidence of old ¼ sec. cor.
79.25 Fall 21 lks. N. of old cor. of secs. 2, 3, 34 & 35, which is a pine post 3 ins. square firmly set in a mound of rocks and marked as described by Surveyor General.

This cor. becomes the cor. of Secs. 2 and 3, T. 3 N., R. 10 W., I therefore destroy all markings on the post referring to T. 4 N., R. 10 W. and raise a mound of stone 3 ft. base, 2 ft. high S. of cor.

Thence I run
N. 89° 42' E. on a true line along the N. bdy. of Sec. 2.
Ascend along very steep S. slope through scattering oak, pine, pinon and manzanita brush.
Scattering oak, pine, pinon and fir timber.

6.85 Set a granite stone 16x12x10 ins., 12 ins. in the ground for cor. of secs. 34 and 35 marked with 2 notches on E. and 4 notches on W. edge from which

A Fir 18 ins. diam. bears N. 45° 30' E. 140 lks. dist. marked T. 4 N., R. 10 W., S 35 B T
A Bull Pine 20 ins. diam. bears N. 20° 20' W. 30 lks. dist. marked T. 4 N., R. 10 W S 34 B T

39.62½ Set a granite stone 16x12x10 ins., 11 ins. in the ground for ¼ sec. cor. of sec. 2, marked ¼ on N. face from which

A Bull Pine 8 ins. dia. bears S. 60° 30' E. 70 lks. dist. marked ¼ S. 2 B. T.

A Fir 18 ins. dia. bears S. 40° 20' W. 60 lks. dist. marked ¼ S 2 B T

.50 Top of high spur bears SW. and NE. Descend.

December 5. At this point on line I set off 22° 23' S. on the decl. arc and at 11h. 51m., l.m.t., observe the sun on the meridian; the resulting lat. is 34° 23'

46.85 Set a granite stone 20x16x12 ins., 15 ins. in the ground for ¼ sec. cor. of sec. 35, marked ¼ on N. face from which

A Bull Pine 16 in. diam. bears N. 60° 20' E. 240 lks. dist. marked ¼ S. 35 B. T.
A Fir 18 ins. dia. bears S. 20° 15' W. 20 lks. dist. marked ¼ S. B. T.

78.50 Top of high spur bears SW. and NE. Descend.
79.25 The cor. of Secs. 1 and 2.
Land mountainous drains S. and SW.
Soil rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 5, 1912.

December 6th. At 10h. a.m. l.m.t., I set off 34° 23' on the lat. arc 22° 30' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 2 and 3, of T. 3 N.

Thence I run
S. 89° 51' W. on a random line along the N. bdy. of Sec. 3.
40.75 Fall 13 lks. N. of old ¼ sec. cor. which is a pine post 3 ins. square in a mound of stone firmly set and marked as described by the General

I destroy the marks on the cor. and bearing tree referring to sec. 34, T. 4 N. This cor. now becomes the ¼ sec. cor. for sec. 3 only of T. 3 N.

80.00 After diligent search fail to find any evidency of old ¼ sec. cor. I continue my random line.
120.00 After diligent search, fail to find any evidence of old sec. cor.
161.80 Fall 20 lks. N. of cor. of secs. 4, 5, 32 and 33 which is a pine post 4 ins. square in a mound of stone and firmly set and marked as described by the Surveyor General.

This cor. now becomes the cor. of secs. 4 and 5, T. 3 N.
I therefore destroy all marking referring to T. 4 N., R. 10 W.

Thence I run
N. 89° 49' E. on a true line along N. bdy. of Sec. 4

Descend along steep N. slope through scattering oak, pine, pinon and manzanita brush, scattering oak, pinon and fir timber.

8.65 Set a granite stone 18x16x12 ins., 12 ins. in the ground for cor. of secs. 32 and 33 of T. 4 N., marked with 4 notches on E. and 2 notches on W. edges and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.

34.20 East fork of Little Rock Creek 30 lks. wide, course N.W.
Ascend along very steep S.W. slope.

40.35 Set a granite stone 18x16x12 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face from which

A Bull pine 17 ins. diam. bears S. 14° E. 120 lks. dist. marked ¼ S. B. T.

A Fir 15 ins. diam. bears N. 60° W. 43 lks. dist. marked ¼ S. B. T.

Chains — Resurvey of N. bdy. of T. 3 N., R. 10 W., S. B. M.

48.65 Set a granite stone 14 x 12 x10 ins. 10 ins. in the ground for ¼ sec. cor. for sec. 33 of T. 4 N., marked ¼ on N. face and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor.

Dec. 6. At this ¼ sec. cor. I set off 22° 31' S. on the decl. arc and at 11h. 51m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 23'

52.10 Top of spur bears S.W. and N.E. Descend.
67.00 Ravine 30 lks. wide, course S.W. Ascend over steep SW. slope.
80.70 Set a granite stone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 3 and 4, marked with 3 notches on the E. and W. edges from which

A pine 18 ins. diam. bears S. 52° E. 20 lks. dist. marked T. 3 N., R. 10 W. S. 3 B. T.
A pine 20 ins. diam. bears S. 60° W. 150 lks. dist. marked T 3 N R 10 W S 4 B. T.

Land mountainous, drains S. and S.W.
Soil rocky, 4th rate.
Scattering pine, pinon, oak and manzanita brush.
Timber scattering oak, pine, pinon and fir. December 6, 1912

December 7. At 9h. a.m. l.m.t., I set off 34° 23 on the lat. arc; 22° 36' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 3 and 4.

Thenl run
N. 89° 49' E. on a true line along the N.bdy. of Sec. 3.
Ascend over steep S. slope covered with slide rock through scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

7.95 Set a granite stone 20x12x12 ins. 15 ins. in the ground for cor. of secs. 33 and 34, marked with 3 notches on E. and W. edges from which

A pine 18 ins. diam. bears N. 20° 15' E. 120 lks. dist. marked T. 4 N., R. 10 W. S 34 B T
A pine 12 ins. dia. bears N. 30° 30' W. 25 lks. dist. marked T. 4 N., R 10 W S 33 B T

21.60 Top of spur bears SW. and NE.
Descend along steep SE. slope over slide rock.
35.70 Ravine 20 lks. wide, course SW. Ascend.
40.35 The ¼ sec. cor. of sec. 3
Thence I run
N. 89° 40' E. on a true line along the N. bdy. of sec. 3.

7.60 Set a granite stone 18x8x8 ins., 12 ins. in the ground for ¼ sec. cor. of sec. 34, marked ¼ on N. face from which

A Pine 20 ins. diam. bears N. 30°15' E. 87 lks. dist. marked ¼ S 34 BT
A Fir 24 ins. diam. bears N. 26° 50' W. 26 lks. dist. marked ¼ S 34 BT

December 7. At this ¼ sec. cor. I set off 22° 38' S. on the decl. arc and at 11h. 52m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 23'

9.25 Top of spur bears SW. and NE. Descend
26.85 Ravine 20 lks. wide, course S.W. Ascend.

Chains

Resurvey of N. bdy. of T. 3 N., R. 10 W., S. B. M.

40.75 The cor. of Secs. 2 & 3, T. 3 N., R. 10 W.
Land mountainous, drains S. and S.W.
Soil rocky and gravelly; 4th rate.
Scattering oak, pinon, pine and manzanita brush.
Timber scattering oak, pine, pinon and fir timber.

December 7, 1912

December 9. At 9h. 31. l.m.t., I set off 34° 23' on the lat. arc. 22° 49' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4 and 5 of T. 3 N.

Thence I run
S. 89° 51' W. on a random line along the N. bdy. of sec. 5.

40.00 After diligent search fail to find any evidence of old ¼ sec. cor.

79.50 Fall 25 lks. N. of cor. of secs. 5, 6, 31 and 32 which is a pine post 4 ins. square in a mound of stone firmly set and marked and witnessed as described by the Surveyor General.

This cor. now becomes the cor. of secs. 5 and 6 only of T. 3 N. I therefore destroy the markings on the cor. referring to secs. 31 and 32.

Thence I run
N. 89° 40' E. on a true line along the N. bdy. of Sec. 5.
Descend over broken N. slope covered with slide rock, through scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

8.15 Set a granite stone 20x16x10 ins., 15 ins. in the ground for cor. of secs. 31 and 32, marked with 5 notches on E. and 1 notch on W. face, from which

A Fir 30 ins. diam. bears N. 75° E. 76 lks. dist. marked T. 4 N., R. 10 W. S 32 B T
A Pine 18 ins. diam. bears N. 65° W. 42 lks. dist. marked T 4 N R 10 W S 31 B T

34.70 Ravine 30 lks. wide, course N. Ascend.

39.75 Set a granite stone 12x12x8 ins., 9 ins. in the ground for ¼ sec. cor. of Sec.5, marked ¼ on N. face, from which

A Pine 18 ins. diam. bears S. 70° E. 12 lks. dist. marked ¼ S 5 B T
A Fir 32 ins. diam. bears N. 10° 15' W. 42 lks. dist. marked ¼ S B T

48.15 Set a granite stone 18x12x10 ins. 12 ins. in the ground for ¼ sec. cor. of Sec. 32, marked ¼ on N. face from which

A Pine 10 ins. diam. bears N. 10° E. 15 lks. dist. marked ¼ S 32 B T
A Fir 18 ins. diam. bears N. 64° 15' W. 35 lks. dist. marked ¼ S 32 B T

65.40 Top of spur bears S.W. and N.E. Descend.

December 9. At this point on line I set off 22° 50' S. on the decl. arc and 11h. 53m. l.m.t., observe the sun on the meridian; the resulting lat. is 34° 22'.

79.50 The cor. of secs. 4 and 5.
Land mountainous; drains N. and N.W.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 9, 1912

Chains — Resurvey of N. bdy. of T. 3 N., R. 10 W., S. B. M.

December 10: At 9h. 10m. a.m., l.m.t., I set off 34° 23' on the lat. arc; 22° 54' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5 and 6.

Thence I run
S. 89° 51' W. on a random line along the N. bdy. of Sec. 6.

40.00 After diligent search fail to find any evidence of old ¼ sec. cor.

78.47 Fall 25 lks. N. of cor. of Tps. 3 and 4 N., Rs.10 and 11 W. which is a pine post very badly decayed set in a mound of stone. I destroy all traces of this cor. and reestablish it at the same point, as follows:

Set a granite stone 18x10x10 ins. 12 ins. in the ground for cor. of Tps. 3 and 4 N., Rs. 10 and 11 W., marked with 6 notches on each edge; from which

A Fir 16 ins. diam. bears N. 89° 50' E. 468 lks. dist. marked T 4 N R 10 W S 31 B T
A Bull Pine 18 ins. dia. bears S. 40° 50' E. 140 lks. marked T 3 N R 10 W S 6 B T
A Fir 20 ins. diam. bears S. 40° 40' W. 155 lks. dist. marked T 3 N R 11 W S 1 B T
A Fir 44 ins. diam. bears N. 4° 45' W. 43 lks. dist. marked T 4 N R 11 W S 36 B T

N. 89° 40' E. on a true line along the N. bdy. of Sec. 6.
Descend over steep E. slope covered with slide rock through scattering oak, pine, pinon and manzanita brush.
Scattering oak, pine, pinon and fir timber.

15.40 West Fork of Little Rock Creek 40 lks. wide, course N.
Ascend over very steep rough W. slope.

38.63 Set a granite stone 12x12x12 ins. 9 ins. in the ground for ¼ sec. cor. of Sec. 6, marked ¼ on N. face from which

A pine 12 ins. diam. bears S. 18° 15' E. 10 lks. dist. marked ¼ S 6 B T
A bull pine 18 ins. diam. bears N. 6° 15' W. 81 lks. dist. marked ¼ S B T

46.62 Set a granite stone 18x12x8 ins., 12 ins. in the ground for ¼ sec. cor. of sec. 31, marked ¼ on N. face, from which

A Fir 18 ins. diam. bears N. 80° E. 18 lks. dist. marked ¼ S 31 B T
A Bull Pine 24 ins. diam. bears S. 40° 50' W. 74 lks. dist. marked ¼ S B T

67.50 Ridge bears NW. and SE. Descend over steep E. slope.

December 10. At this point on line I set off 22° 55' S. on the decl. arc and at 11h. 53m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 23'

46.62 Set a granite stone 18x12x8 ins. 12 ins. in the ground for ¼ sec. cor. of sec. 31, marked ¼ on N. face from which

A Fir 18 ins. diam. bears N. 80° E. 18 lks. dist. marked ¼ S 31 B T
A Bull Pine 24 ins. diam. bears S. 40° 50' W. 74 lks. dist. marked ¼ S B T

67.50 Ridge bears NW. and SE. Descend over steep E. slope.

Chains

Resurvey of N. bdy. of T. 3 N., R. 10 W., S. B. M.

December 10. At this point on line I set off 22° 55' S. on the decl. arc and at 11h. 53m. l.m.t. observe the sun on the meridian; the resulting lat. is 34° 23'.

78.47 The cor. of secs. 5 and 6.
Land mountainous, drains N.E. and N.W.
Soil rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 10, 1912

West Bdy. of T. 4 N., R. 10 W.

From the cor. of Tps. 3 and 4 N., Rs. 10 and 11 W., I run North bet. secs. 31 and 36.
Descend over broken N.E. slope through scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

.40 Ravine 15 lks. wide, course E. Ascend.
4.00 Top of spur bears E. and W. Descend.
9.00 Top of spur bears E. and W. Descend.
24.50 Ravine 15 lks. wide, course NE. Ascend.
27.60 Top of spur bears NE. and SW. Descend.
35.50 West bank of Little Rock Creek bears NW. and SE.
Thence along creek bed.
37.50 Leave west fork of Little Rock Creek bears NE. and SW.
Ascend.
40.00 Top of spur bears E. and W. Descend.
Set a granite stone 12x10x8 ins. 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raised a mound.

Chains. Subdivisions of T 4 N, R 10 W

December 24. At 9h.10m,A.M.,l.m.t.,I set off 34°27' on the lat. arc; 23°23'S on the decl.arc; and determine a meridian with the solar at the cor.of secs. 10,11,14 & 15.

Thence I run

West, on a blank line bet.secs. 10 and 15.

40.00 Set temp. ¼ sec.cor.

79.76 Fall 11.36 chs.N.02'W.of the cor.of secs. 9 and 16

Set an iron post 3 ft.long, 2 in.dia. 24 ins. in the ground for cor. of secs. 10 and 15, with brass cap mkd.

T 4 N R 10 W
S 10
S 15

and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

East, on a true line bet. S ecs. 10 and 15

Over level desert, thru scattering sage brush, juniper and yucca palms.

2.80 Dry wash, 10 lks. wide, course N.E.

7.75 Dry wash, 12 lks. wide, course N.E.

27.25 Old road, bears N.E. and S.W.

December 24. At this point on line, I set off 23°24'S. on the decl. arc; and at 12h, l.m.t. observe the sun on the meridian; the resulting lat. is 34°27'

30.00 Dry wash, 20 lks. wide, course N.E.

33.50 Dry wash, 15 lks. wide, course N.E.

38.00 Dry wash, 10 lks. wide, course N.E.

39.88 Set an iron post 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor., with brass cap mkd.

S 10
¼
S 15

and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.

44.25 Dry wash, 10 lks. wide, course N.E.

54.00 Dry wash, 15 lks. wide, course N.E.

59.75 Dry wash, 20 lks. wide, course N.E.

79.76 The cor. of secs. 10, 11, 14 and 15

Land level, desert, drains N.E.

Soil, sandy and gravelly, 4th rate.

Scattering sage brush, juniper and yucca palms.

I return to the temp. ¼ sec. cor. on W. bdy. of sec. 15, set at 51.35 chs. N 02° W of the cor. of secs. 16 and 21, and at ½ lk. N 02' W thereof I set an iron post 3 ft. long 1 in. dia. 24 ins. in the ground for ¼ sec. cor. of sec. 15, with brass cap mkd. ¼ S. 15 and raise a mound of stone, 2 ft. base 1½ ft. high W. of cor.

From the cor, of secs. 9 and 16, I run

N 0°2' W. along the E. bdy. of sec. 9

Descend gradually over N. slope thru scattered oak juniper and manzanita brush.

11.36 The cor. of secs. 10 and 15

24.50 Dry wash 30 lks. wide, course N 30° E

Chains	Subdivisions of T 4 N, R 10 W
39.50	Head of dry wash, 20 lks. wide, course N.E.
40.00	Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor. of Sec. 9, with brass cap mkd.
	S 9 ¼
	and raise a mound of stone, 2 ft. base 1½ ft. high W. of cor.
43.00	Dry wash, 10 lks. wide, course N.E.
45.50	Dry wash, 20 lks. wide, course N.E. Small spring up this wash, 1.50 lks. W. of line
51.36	Set temp. ¼ sec. cor. of sec. 10
66.70	Dry wash, 30 lks. wide, course N.E.
78.75	Dry wash, 10 lks. wide, course N.E.
80.00	Set an iron post 3 ft. long, 2 ins. dia. 24 ins. in the ground, for cor. of secs. 4 and 9, with brass cap mkd.
	T 4 N, R 10 W S 4 S 9
	and raise a mount of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land gently sloping, drains N.
	Soil, sandy and gravelly; 4th. rate
	Scattering oak, juniper and manzanita bruch. December 24, 1912.

	December 26. At 9 h., 10 m, A.M., l.m.t. I set off 34°27' on the lat. arc; 23°20' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 & 11
	Thence I run
	West, on a blank line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
79.40	Fall 10.95 chs. N 0°2' W of the cor. of secs. 4 and 9
	Set an iron post, 3 ft. long, 2 ins. dia. 24 ins. in the ground, for cor. of secs. 3 and 10, with brass cap mkd.
	T 4 N, R 10 W S 3 S 10
	and raise a mound of stone, 2 ft. base 1½ ft. high W. of cor.
	East, on a true line bet. secs. 3 and 10
	Descend into large dry wash.
1.75	Middle of dry wash, 3.50 lks. wide, course N 10° W; thence ascend over low broken hills
7.50	Top of spur, bears N.W. and S.E. desc.
9.20	Dry wash, 20 lks. wide, course N.E. sca.
12.00	Top of spur, bears N.W. and S.E. desc.
14.50	Dry wash, 30 lks. wide, course N.E. asc.
18.50	Top of spur, bears N.W. and S.E. asc.
22.50	Dry wash, 15 lks. wide, course N.W. asc.
26.10	Top of spur, bears N.W. and S.E. desc.
34.50	Dry wash, 15 lks. wide, course N.W. asc.
35.40	Top of spur, bears N.W. and S.E. desc.
37.50	Dry wash, 30 lks. wide, course N.E. asc.
39.40	Set an iron post, 3 ft. long, 1 in. in dia. 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.
	S 3 ¼ S 10

and raise a mount of stone 2 ft. base, 1½ ft. high of cor.
Thence descend gradually over E. slope, thru scattering sage brush, juniper and yucca palms.
79.40 The cor. of secs. 2, 2, 10 and 11
Land, broken and hilly; drains N.
Soil, sandy and rocky; 4th rate
Scattering oak, pine and yucca palms.

I return to the temp. ¼ sec. cor. on the W. bdy. of sec. 10
Set at 51.36 chs. N 0°2' W of the cor. of secs. 9 and 16, and at 20½ lks. S. 0°2' E. thereof I
Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

¼ S 10

and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.

From the cor. of secs. 4 and 9 I run
N 0°2' W on a true line along E. bdy. of sec. 4.
Descend along the W. bank of a large dry wash, thru scattering juniper, manzanita and yucca palms.
10.95 The cor. of secs. 3 and 10
15.00 West bank of large dry wash, course N 10° W; thence along wash
40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 4¼

Dig pits 18x18x12 ins., N. and S. of post, 3 ft. kist. and raise a mound of earth, 3½ ft. base, 1½ ft. high W of cor.
50.95 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for ¼ sec. cor. of sec. 3 with brass cap mkd.

¼ S 3

and raise a mound of stone, 2½ ft. base 1½ ft. high E of cor.
54.50 Leave dry wash, course N.E.; thence asc. over broken hills
65.50 Top of spur, bears N.E. and S.W. desc.
80.00 Leave hills, bears N.E. and S.W. thence over level desert
91.57 Intersect N. bdy. of Tp. 95 lks. S 89°40' E of cor. of secs. 3 and 4, 33 and 34, which now becomes the cor. of secs. 33 and 34.
At the point of intersection I
Set an iron post 3 ft. long, 2 ins. dia. 24 ins. in the ground, for closing cor. of secs. 3 and 4, with brass cap mkd.

T 5 N, R 10 W
S 33 S 34 C C
S 4 S 3
T4 N R 10 W

and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
Land broken, drains N.
Soil, sandy and gravelly; 4th rate.
Scattering oak, juniper, manzanita and yucca palms
No timber.
December 26. At this cor. I set off 23°21' S on the decl. arc and at 12h., 1m., l.m.t. observe the sun on the meridian; the resulting lat. is 34°28'
December 26, 1912

Chains | Subdivisions of T 4 N, R 10 W

From the cor. of secs. 32 and 33, on S. bdy. of the Tp. I run
N 0°2' W bet. secs. 32 and 33
Descend abruptly over steep N. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

33.95 East Fork, Little Rock Creek, 50 lks. wide, course N.W. asc. steep S. slope

40.00 Set a granite stone 18x12x6 ins, 12 ins. in the ground, for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone, 2 ft. base 1½ ft. high W. of cor.

49.75 Top of spur, bears S.W. and N.E. desc.

65.00 Ravine, stream 20 lks, wide, course W. asc.

71.25 Top of spur, bears W. desc.

80.00 Set a granite stone 30x25x15 ins. 23 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land mountainous, drains N.W.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir. December 17, 1912

N 89°49' E on a random line bet. secs. 28 and 33

40.00 Set temp. ¼ sec. cor.

79.84 Intersect N. and S. line, 16 lks. N. of cor. of secs. 27, 28, 33 and 34.

Thence I run
S 89°56' W on a true line bet. secs. 28 and 33
Descend abruptly over very steep W. slope thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

28.80 Ravine, 10 lks. wide, course W.

39.92 The true point for the ¼ sec. cor. falls on a very steep W. slope, no suitable place for monument.

59.92 Top of spur, bears S.W. and N.E.
Set a granite stone 18x12x6 ins. 12 inx. in the ground, for witness cor. to ¼ sec. cor. marked W.C. ¼ on N. face; and raised a mound of stone, 2 ft. base, 1½ ft. high N. of cor. Desc.

65.00 Ravine, 10 lks. wide, course S.W. asc.

70.50 Top of spur, bears N. and S. desc. abruptly

79.20 Ravine, stream 10 lks. wide, course N.W. asc.

79.84 The cor. of sec. 28, 29, 32 and 33
Land, mountainous, drains W. and N.W. Nearly the entire mile is on a very steep W. slope.
Soil, rocky; 4th rate
Scattering oak, pine, pinon and manzanita brush
Timber, scattering oak, pine, pinon and fir. December 18, 1912.

N 0°2' W. bet. secs. 28 and 29
Descend thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.

4.50 Ravine 20 lks. wide, stream 15 lks. wide, course N.W. asc.

21.60 Top of spur, bears N.W. and S.E. desc.

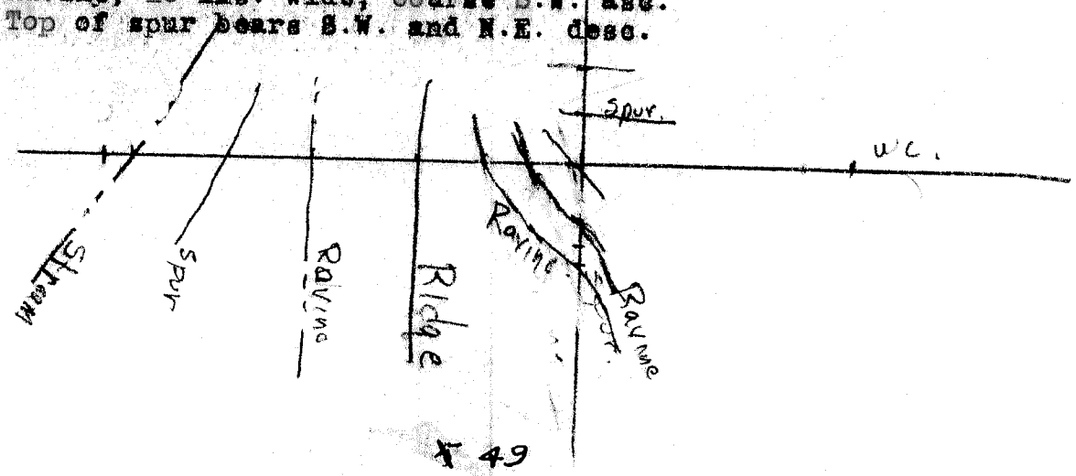
35.40 Ravine, 15 lks. wide, course W. asc. abruptly over very steep S. slope over slide rock.

40.00 The true point for the ¼ sec. cor. falls on a very steep side hill, covered with slide rock, no suitable place for monument.

Chains — Subdivisions of T 4 N, R 10 W

50.02 Set a granite stone 16x14x8 ins., 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on W. face; and raised a mound of stone, 2 ft., base 1½ ft. high W. of cor.
Cor. on top of spur bears E. and W., desc.
64.27 Ravine, 10 lks. wide, course S.W. asc.
71.00 Top of spur, bears S.W. and N.E., desc.
78.50 Ravine, 10 lks. wide, course S.W. asc.
80.00 Set a granite stone 20x13x6 ins. 15 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E edge; from which
An oak, 16 ins. diam. bears N 6°40' E 63 lks. dist. marked T 4 N, R 10 W, S 21 B T
A fir 24 ins. diam. bears S 88°05' E, 18 lks. dist., marked T 4 N R 10 W S 28 B T
An oak 12 ins. diam. bears S 25°10' W 54 lks. dist. marked T 4 N R 10 W, S 29 B.T.
An oak 14 ins. diam., bears N 44°15' W, 88 lks. dist. marked T 4 N, R 10 W S 20 B T
Land mountainous, drains W. and N.W.
Soil, rocky; 4th rate.
Scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber. December 19, 1912.

December 20. At 9h, 10m. A.M., l.m.t., I set off 34°25' on the lat. arc 23°24's. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29
N 89°56' E on a random line bet. secs. 21 and 28
40.00 Set temp. ¼ sec. cor.
79.78 Intersect N. and S. line 17 lks. S. of cor. of secs. 21, 22, 27 and 28.
Thence I run
S 89°49' W on a true line bet. secs. 21 and 28
Ascend over steep E. slope, thru scattering oak pine, pinon and Manzanita brush, scattering oak, pine pinon and fir timber.
17.75 Summit Pleasant View Ridge, bears E. and W. thence along ridge
22.00 Set a granite stone 18x12x12 ins. in the ground for witness cor. to ¼ sec. cor. marked W.C.¼ on N. face, from which
A pine 8 ins. diam. bears N 1°50' E 21 lks. dist. marked W.C.¼ S 21 B T
A pine 10 ins, diam. bears S 35°13' E 56 lks. dist. marked W.C.¼ S 28 B.T.
Leave Pleasant View Ridge bears N.W. & S.E., descend over very steep S. slope
December 20. At this witness corner to ¼ sec. cor. I set off 23° 25'S., on the decl. arc; and at 11h 58m, l.m.t. observe the sun on the meridian the resulting lat. is 34°25'
39.89 The true point for the ¼ sec. cor. falls on a very steep S. slope, no suitable place for monument.
65.30 Ravine, 10 lks. wide, course S.W. asc.
70.00 Top of spur bears S.W. and N.E. desc.



T 49

Chains — Subdivisions of T 4 N, R 10 W

79.78 The cor. of secs. 20, 21, 28 and 29
Land, mountainous
East 22 chs. drains E.
West 57.78 chs. drains W.
Soil, rocky, 4th rate
Scattering oak, pine, pinon and manzanita brush
Timber, scattering oak, pine, pinon and fir. December 20, 1912.

N 0°2' W. bet. sec. 20 and 21
Ascend over very steep S. slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
40.00 The true point for the ¼ sec. cor. falls on a steep S. slope covered with slide rock; no suitable place for a monument.
46.00 Set a granite stone 18x12x9 ins. 12 ins. in the ground for witness cor. to ¼ sec. cor. marked W C ¼ on W. face, from which
A pine 8 ins. diam. bears N 39°12' E 95 lks. dist. marked
W C ¼ S 21 B T
A pine 6 ins. diam. bears S 39°12' W 9 lks. dist. marked
W.C. ¼ S 20 B.T.
50.12 Summit of Pleasant View Ridge, bears E. and W. desc.
77.50 Ravine, 20 lks. wide, course N.E. and S.W. asc.
80.00 Set a granite stone 28x9x8 ins. 21 ins. in the ground, for cor. secs. 16, 17, 20 and 21, and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor.
Land mountainous
South 50.12 chains land drains S.
North 29.88 chains, land drains N.
Soil, rocky; 4th rate
Scattering oak, pine, pinon and manzanita brush
Timber, scattering oak, pine, pinon and fir. December 21, 1912.

N 89°49' E on a random line bet. secs. 16 and 21
40.00 Set temp. ¼ sec. cor.
79.98 Intersect N. and S. line at the cor. of secs. 16 and 21
Thence I run
S 89°49' W on a true line bet. secs. 16 and 21
Ascend over S. slope, thru scattering oak pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber
1.50 Top of spur, be ars N.E. and S.W. desc.
18.05 Ravine, 75 lks. wide, course N.E. asc.
32.46 Top of spur, bears N.E. and S.W. desc.
39.99 Set an iron post 3 ft. long, 1 in. in dia. 24 ins. in the ground for ¼ sec. cor., with brass cap mkd.

S 16
¼
S 21

and raise a mound of stone, 2ft., base 1½ ft. high N. of cor.
40.35 Ravine, 15 lks. wide, course N.E. Asc.
45.00 Top of spur, bears N.E. and S.W., desc.
51.90 Ravine, 20 lks. wide, course N.E. Asc.
55.00 Top of spur, bears N.E. and S.W. desc. abruptly
62.60 Ravine 20 lks. wide, course N.E. asc.
70.90 Top of spur, bears N.E. and S.W. desc.
72.95 Ravine, 20 lks. wide, course N.E. ascend
79.98 The cor. of secs. 16, 17, 20 and 21

Chains

Subdivisions of T 4 N, R 10 W

Land, mountainous, drains N.
Soil, rocky; 4th rate.
Scattering oak, pinon, pine and manzanita brush
Timber, scattering oak, pine, pinon and fir timber.
December 24, 1912.

60.6

N 0°2' W bet. secs. 16 and 17
Ascend over steep S. Slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
9.10 Top of spur, bears N.E. and S.W. desc.
40.00 Set an iron post, 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor., with brass cap mkd.:
S 17¼ S 16
and raise a mound of stone, 2 ft. base, 1½ ft. high W of cor.
65.50 Leave mountains, bear NE and SW; thence descend, gradually over N slope thru scattering sage brush, pine, juniper and yucca palms.
80.00 Set a granite stone 14x10x9 ins., 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S and 4 notches on E edge; from which
A pine, 6 ins. diam. bears N 64° E, 50 lks. dist. marked
T 4 N, R 10 W S 9 B T
A pine, 8 ins. diam. bears S 49° E 76 lks. dist. marked
T 4 N, R 10 W S 16 B T
A pine, 8 ins. diam. bears S 51°15' W 64 lks. dist. marked
T 4 N R 10 W S 17 B T
A pine 10 ins. diam. bears N 35°15' W 35 lks. dist. marked
T 4 N R 10 W S 8 B T

9.10
66
54 6
546
600.

Land mountainous and gradually sloping, drains N.
South 65.50 chs. land mountainous
North 14.50 chs. land gradually sloping
Soil, rocky and sandy; 3rd and 4th rates
Land covered with scattering oak, pine, pinon and manzanita brush,
Scattering oak, pine, pinon and fir timber 65.50 chs.
December 26, 1912

December 27. At 9h.10m, A.M., l.m.t., I set off 34°27' on the lat. arc; 23°18' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17
N 89°49' E on a random line bet. secs. 9 and 16
40.00 Set temp. ¼ sec. cor.
79.89 Intersect N and S line 20 lks. N of cor. of secs. 9 and 16
Thence I run
S 89°58' W on a true line bet. secs. 9 and 16
Over rolling land, thru scattering pine, juniper and yucca palms
Desc.
1.00 Dry wash, 15 lks. wide, course NE asc.
6.50 Top of low spur, bears NE and SW desc.
9.00 Dry wash, 20 lks. wide, course NE asc.
11.00 Top of low spur, bears NE and SW desc.
12.00 Dry wash, 30 lks. wide, course NE asc.
21.00 Top of low spur, bears NE and SW desc. gradually
35.30 Old road, bears NW and SE
39.94¼ Set a granite stone 18x12x9 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; and raise a mound of stone, 2 ft. base 1½ ft. high N of cor.
56.70 Dry wash, 20 lks. wide, course NE asc.

Chains	Subdivisions of T 4 N R 10 W
68.00	Top of low spur, bears NE and SW desc.
71.00	Dry wash, 20 lks. wide, course NE asc. gradually
79.89	The cor. of secs. 8, 9, 16 and 17
	Land rolling, drains N.
	Soil, rocky and gravelly; 3rd and 4th rate.
	Scattering pine, juniper and yucca palms

	N 0°2' W bet. secs. 8 and 9
	Over gradually sloping land, thru scattering pine, juniper and Yucca palms. Decend
16.00	Old road bears N.W. and S.E.
40.00	Set an iron post 3 ft. long, 1 in. dia. 24 ins. in the ground for ¼ sec. cor., with brass cap mkd.
	S ¼ S 9
	Dig pits 18x18x12 ins. N and S of post 3 ft. dist. and raise a mound of earth, 3½ ft. base 1½ ft. high W. of cor.
	December 27. At this ¼ sec. cor. I set off 23°18' S on the decl. arc; and at 12h, 1m., l.m.t. observe the sun on the meridian; the resulting lat. is 34°27'
70.00	South bank of dry wash, comes in from the SW and runs N; thence along wash
77.50	Spring bears E., 110 lks. dist.
80.00	Set a conglomerate stone 14x12x9 ins., 10 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on S and 4 notches on E edge; and raise a mound of stone 2 ft. base, 1½ ft. high W of cor.
	Land gradually sloping, drains N.
	Soil, sandy and rocky; 3rd and 4th rate.
	Scattering oak, pine and juniper brush. December 27, 1912.

	December 28. At 9h. 10m A.M., l.m.t., I set off 34°27' on the lat. arc; 23°15' S, on the decl. arc. and determine a meridian with the solar at the cor. secs. 4, 5, 8 and 9
	N 89°58' E on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
80.01	Intersec. N and S line 12 lks. S of cor. of secs. 4 and 9
	Thence I run
	S 89°53' W on a true line bet. secs. 4 and 9
	Ascend over rolling land, thru scattering pine, juniper and yucca palms.
1.90	Top of spur, bears NE and SW desc.
17.75	Dry wash, 20 lks. wide, course N. asc.
40.00½	Set an iron post 3 ft. long, 1 in. dia., 1 in. dia., 24 ins. in the Ground for ¼ sec. cor. with grass cap mkd.
	S 4 / ¼ / S 9
	and raise a mound of stone, 2 ft. base, 1½ ft. high N. of cor.
46.00	Top of low spur, bears NE and SW desc.
59.40	Dry wash, 50 lks. wide, course N. asc.
69.75	Top of low spur, bears N and S desc.
79.00	Enter dry wash, course N.
80.01	The cor. of secs. 4, 5, 8 and 9
	Land rolling, drains N.
	Soil, sand loam and rock; 2nd and 3rd rates
	Scattering oak, pine, juniper and yucca palms

Chains | Subdivisions of T 4 N, R 10 W

N 0°2' W on a true line bet. secs. 4 and 5
Along dry wash, desc.
1.00 Leave dry wash, course NE thence ascend over broken hills, thru scattering pine, juniper and yucca palms
9.10 Top of spur bears NE desc.
14.00 Dry wash, 30 lks. wide, course NE asc.
26.00 Top of spur, bears NE desc.
December 28. At this point on line I set off 23°16' S on the decl. arc; and at 12h, 02m, 1.m.t., observe the sun of the meridian; the resulting lat. is 34°28'
33.00 Dry wash, 30 lks. wide, course NE asc.
40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for ¼ sec. cor. with brass cap mkd.

S 5 ¼ S 4

and raise a mound of stone, 2 ft. base, 1½ ft. high W of cor.
40.50 Top of spur bears NE, desc.
54.20 Dry wash, 20 lks. wide, course NE asc.
61.90 Top of spur, bears NE desc.
76.00 Middle of dry wash, 200 lks. wide, course NE asc.
91.89 Intersect N bdy. of Tp. 85 lks. E. of cor. of Secs. 32 and 33.
At the point of intersection, I
Set an iron post 3 ft. long, 2 ins. dia. 24 ins. in the ground for closing cor. of secs. 4 and 5, with brass cap mkd.

T 5 N, R 10 W
S 32 S 33
C C
S 5 S 4
T 4 N R 10 W

and raise a mound of stone, 2 ft. base 1½ ft. high S of cor.
Land broken, drains N.
Soil, sandy and rocky; 3rd and 4th rates
Scattering oak, pine, juniper and yucca palms. December 28, 1912.

From the cor. of secs. 31 and 32, on the S. bdy. of the Tp.
I run
N 0°3' W bet. secs. 31 and 32
Descend over very steep N slope, thru scattering oak, pine, pinon and manzanita brush, scattering oak, pine, pinon and fir timber.
24.50 Ravine, 30 lks. wide, course NE asc.
30.00 Top of spur, bears NE and SW desc.
40.00 Set a granite stone 16x10x8 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor.
51.60 Ravine, 50 lks. wide, course N 35° W, asc.
80.00 Set a granite stone 16x12x8 ins. 12 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge; and raise a mound of stone, 2 ft. base, 1½ ft. high W of cor.
Land, mountainous, drains N.
Soil, rocky, 4th rate.
Scattering oak, pine, pinon and manzanita brush.
Timber, scattering oak, pine, pinon and fir.

December 27, 1912.