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BOOK 2866

Book "C."  
(Subdivisions)

# FIELD NOTES

Re-  
OF THE SURVEY OF THE

South, West, and part of the North bdy.,

and

Part of the subdivision lines of

and

Survey of Private Tract No. 37

all of

Township 14 North ~ Range 4 West

Of the Gila and Salt River Base and Meridian,

In the State of Arizona.

## EXECUTED BY

John F. Hesse.

U. S. Surveyor,

*In the capacity of U. S. Surveyor, under instructions dated Sept. 26, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 37, which were approved by the Commissioner of the General Land Office, October 3, 1914.*

*Resurvey and Survey commenced November 24, 1914.*

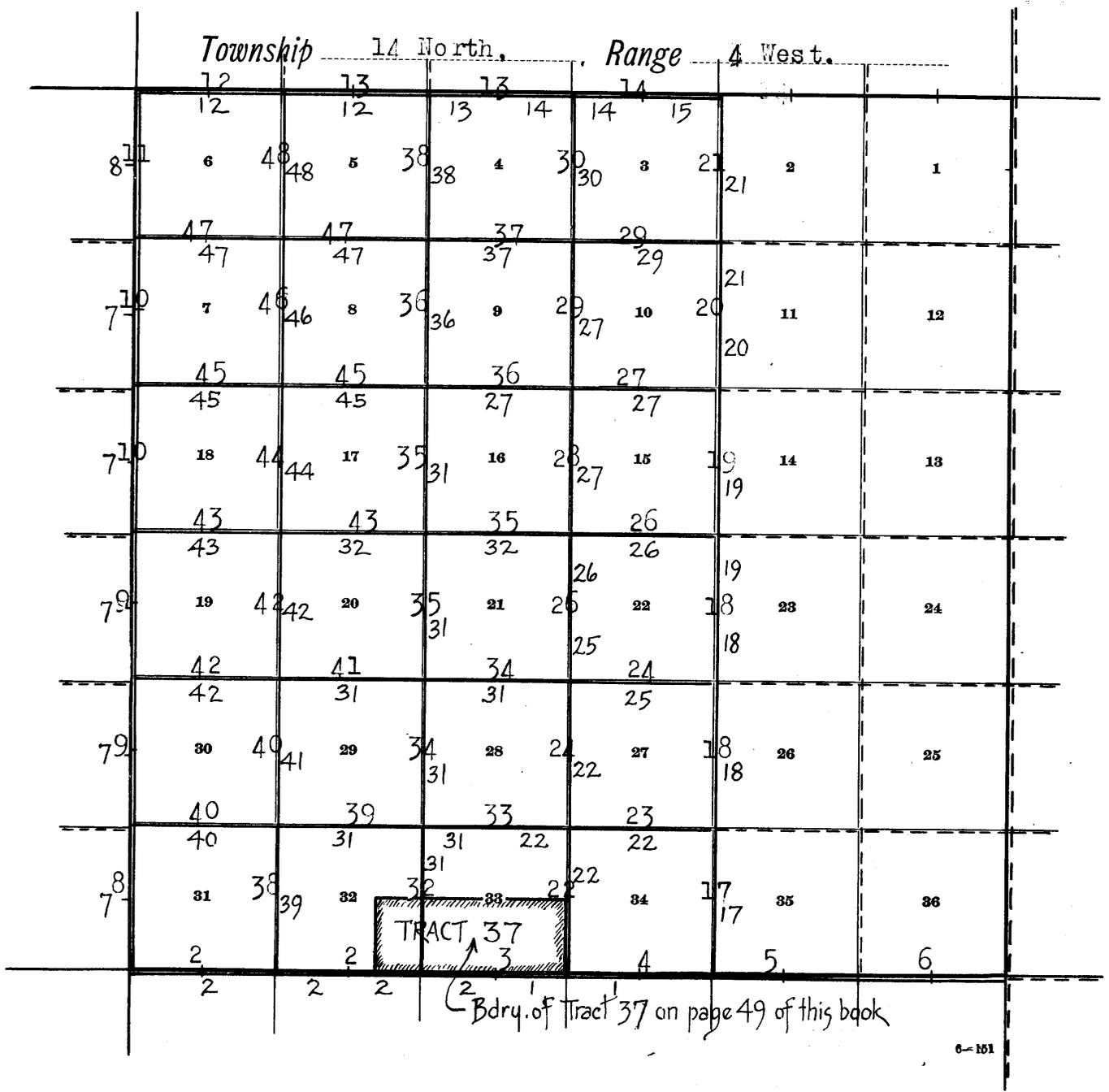
*Resurvey and Survey completed July 16, 1915.*

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BOOK 2866

Book "C."

# INDEX DIAGRAM.



———— Notes in this book (indexed).

———— Accepted surveys.

----- Unsurveyed lines.

12 Retracement notes indexed in Red figures

Note: The Santa Fe, Prescott & Phoenix Railway is designated in these field notes as "S. F. P. & P. Ry."

Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

Chains.  
Re-

Survey commenced November 24, 1914, and executed with an A. Lietz light mountain transit, No. 6166, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was approved by the Assistant Supervisor of Surveys for Arizona and California, conditional upon satisfactory field tests, September 28, 1914. I examine the adjustments of the transit and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp which is located near the cor. of secs. 20, 21, 28 and 29, Tp. 14 N. Rg. 4 W.; latitude  $34^{\circ} 31' 47''$  N.; longitude  $112^{\circ} 41' 34''$  W.; I set off  $34^{\circ} 32'$  N. on the lat. arc;  $20^{\circ} 29\frac{1}{2}'$  S. on the decl. arc; and at 4h. 00 m. p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

November 24, 1914.

November 25, 1914: At 3h. 14m. a.m. by my watch which has correct l.m.t., I observe Polaris at western elongation in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h. 00m. a.m.; l.m.t., I lay off the azimuth of Polaris  $1^{\circ} 24'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone set November 24; on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32'$  N., on the lat. arc;  $20^{\circ} 37\frac{1}{2}'$  S. on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0' 21''$  west and  $0' 16''$  east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 30m. a. m., is  $N. 15^{\circ} 30' W.$ ; the angle thus determined gives the mag. decl.  $15^{\circ} 30' E.$

November 25, 1914.

November 30: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 30'$  N. on the lat. arc;  $21^{\circ} 32'$  S. on the decl. arc; and determine a meridian with the solar at the  $\frac{1}{4}$  sec. cor. bet. secs. 3 and 34 on the S. bdy. of the Tp., which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.

Thence I run West on a random line along the S. bdy. of the Tp.

40.00 I make careful search but find no trace of the old cor. of of secs. 3, 4, 33 and 34.

I continue my line West  
80.27 Fall 1.26 chs. N. of old  $\frac{1}{4}$  sec. cor. which is a stone, firmly set in the ground, marked and witnessed as

## Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

Chains. described by the surveyor general.  
 From the old  $\frac{1}{4}$  sec. cor. bet. secs. 4 and 33 I run West on a random line along S. bdy. of Tp., making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors., but without success, until at  
 203.45 Fall 4.62 $\frac{1}{2}$  chs. N. of the old cor. of Tps. 13 and 14 N. Rgs. 4 and 5 W., which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.  
 This falling gives the course of this line between the two corners N. 88° 42' E. and the total distance 203.50 chs.  
 I destroy all traces of the old cor. and re-establish it in the same place as follows:  
 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of Tps. 13 and 14 N. Rgs. 4 and 5 W.  
 Marked on brass cap  
 1914 on S. rim;  
 T14N in N.,  
 R4W in E.,  
 T13N in S. and  
 R5W in W. half;  
 S36 in N. W.,  
 S31 in N. E.,  
 S6 in S. E. and  
 S1 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high, S. of cor. Pits impracticable.

November 30, 1914.

December 8, 1914: At 9h. 00m. a.m., l.m.t., I set off 34° 30' N. on the lat. arc; 22° 39' S. on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 13 and 14 N. Rgs. 4 and 5 W. re-established by me as hereinbefore described.

Thence I run

N. 88° 42' E. bet. secs. 6 and 31, marking and blazing true line, setting cors. at distances proportional to those given in the original survey.

Descend rough E. slope through dense brush.

40.30 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S31 in N. and  
 S6 in S. half; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

76.00 Wash 15 lks. wide course S. E. 1200 ft. below Tp. cor. ascend.

81.10 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 5, 6, 31 and 32, marked on brass cap  
 1914 on S. rim:  
 T14N in N.,  
 T13N in S. and  
 R4W in W. half;  
 S31 in N. W.  
 S32 in N. E.  
 S5 in S. E. and  
 S6 in S. W. quadrant; and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oak.

N. 88° 42' E. bet. secs. 5 and 32.

Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

Chains.

- 6.80 Ascend steeply, through dense brush.
- 6.80 Ridge bears N. and S. descend.
- 35.20 Wash 10 lks. wide course S. ascend.
- 40.80 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1914 on S. rim;  $\frac{1}{4}$ S32 in N. and S5 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 48.32 Ridge, brs; N. and S.; descend.
- 61.20 Intersect Tract No. 37, at SW. cor. No. 4. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for closing cor. of secs. 5 and 32 and cor. No. 4 of Tract No. 37, marked on brass cap 1914 on S. rim; CC E. of center; TR37 4 in E. and R4W in W. half; T14N S32 in N. W. and T13N S5 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- Thence along S. bdy. of tract - No. 37.
- Continue measurement.
- 77.00 Wash 500 lks. wide course S. ascend.
- 79.70 Flume course S. E.
- 81.60 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 4, 5, 32 and 33, marked on brass cap, 1914 in S. rim; T 14 N in N., T 13 N in S., and R 4 W in W. half; S 32 in NW., S 33 in NE., S 4 in SE., and S 5 in SW. quadrant; and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- Land, mountainous. Soil, rocky, 4th rate.
- No timber. Undergrowth, oak.

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- N. 88° 42' E. bet. secs. 4 and 33 along S. bdy. of Tract No. 37.
- Along S. slope covered with huge granite boulders, through dense brush.
- 4.36 Flume course S. E.
- 5.50 Wash 15 lks. wide course S. W. ascend.
- 13.25 Fence bears N. and S. Top of low ridge and over rolling land.
- 16.30 Crystal Springs Fish Hatchery Bears N. 65 lks.
- 16.80 Leave brush.
- 18.10 Corral bears S. 20 lks.
- 18.40 Creek 3 lks. wide course S. Waste water from fish hatchery.
- 19.81 Fence N. 85° E. and S. 85° W.
- 20.60 W. L. Robert's house bears N. 116 lks.
- 22.10 Road bears N. E. and S. W. and through dense brush.
- 23.69 Fence bears S. 85° E. and N. 85° W.
- 25.60 A. J. Laswell house bears N. 135 lks.
- 27.04 Fence bears N. and S. and along fence bears E.
- 27.60 Leave brush and over level land.
- 35.02 Fence bears N.
- 35.43 Wash 15 lks. wide course S.
- 37.40 Wash 40 lks. wide course S.
- 40.80 The old  $\frac{1}{4}$  sec. cor. hereinbefore described, I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. and cor. No. 5 of Tract No. 37 marked on brass cap 1914 on S. rim; TR 37 5 in N. half; and  $\frac{1}{4}$ S 4 in S. half; from which A mesquite 4 ins. diam., bears S. 42 $\frac{1}{2}$ ° W. 264 lks. dist., marked  $\frac{1}{4}$ S4BT

4 Chains. Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

No other tree available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, S. of cor. Pits impracticable.  
 Thence from reestablished  $\frac{1}{4}$  sec. cor. I run  
 N.  $89^{\circ} 06'$  E. along S. bdy. of Tract No 37, setting cor. at distance proportional to that given in original survey  
 Over level land, along fence.  
 0.34 Fence bears N. E. and S. W. Leave E and W fence.  
 1.60 Road bears N. E. and S. W.  
 2.48 S. F. P. and P. Ry. bears N. E. and S. W.  
 3.00 Telegraph line bears N. E. and S. W.  
 3.30 Cor. of fence 3 lks. N. runs N. and E. from cor. and along fence.  
 5.66 Shed 3 lks. N. and tent house 4 lks. S.  
 19.72 Road bears N. W. to Phoenix and S. E. to Prescott.  
 25.15 Road bears N. and S. ascend through dense brush.  
 29.70 Ridge bears N. and S. descend.  
 35.00 Over level land, leave brush.  
 40.14 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 3, 4, 33 and 34, which is also cor. No. 6, the S. E. cor. of Tract No. 37, marked on brass cap  
 1914 on S. rim;  
 T14N in N.  
 T13N in S. and  
 R4W in W. half;  
 S33 in N. W.  
 S34 in N. E.  
 S3 in S. E. and  
 S4 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, mountainous, level and rolling.  
 Soil, W. 13.00 chs. rocky; 4th. rate. E. 67.94 chs. sandy loam, mixed with gravel; 2nd. rate.  
 No timber.  
 Undergrowth, mesquite and oak.

December 8, 1914, January 4 and 28, 1915.

December 7, 1914: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 30'$  N. on the lat. arc;  $22^{\circ} 30\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 3, 4, 33 and 34  
 Thence I run  
 N.  $89^{\circ} 06'$  E. bet. secs. 3 and 34.  
 Over level land.  
 0.40 Cross wash 20 lks. wide course SW.  
 6.60 Ascend through dense brush.  
 12.00 Low ridge bears N. E. and S. W. descend.  
 15.00 Foot of ridge and across draw.  
 18.00 Wash 5 lks. wide course S. W.  
 19.00 Ascend.  
 23.00 Top and over mesa.  
 40.14 The old  $\frac{1}{4}$  sec. cor. hereinbefore described. I destroy all traces of the old cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S34 in N. and  
 S3 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 Thence from reestablished  $\frac{1}{4}$  sec. cor. I run  
 East on a random line.  
 40.20 Fall 54 lks. S. of old cor. of secs. 2, 3, 34 and 35. In return to the reestablished  $\frac{1}{4}$  sec. cor. bet. secs. 3 and 34,  
 Thence I run  
 N.  $89^{\circ} 14'$  E.

Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

Chains.	
41.00	Descend from mesa.
43.00	Over rolling land.
56.95	Point of spur, brs. SW.
59.75	Wash 40 lks. wide, course SW.
63.40	Wash 15 lks. wide, course SW.
71.20	Road S. W. to Phoenix and N. E. to Prescott.
72.00	Ascend along N. W. slope.
74.35	Wash 20, lks. wide course N. W.
80.35	The old cor. of secs. 2, 3, 34 and 35. a stone lying on ground marked as described by the surveyor general, with traces of mound of stone W. I destroy this old cor. and reestablish it in the same place as follows: Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap 1914 on S. rim; T14N in N., T13N in S. and R4W in W. half; S34 in N. W. S35 in N. E. S2 in S. E. and S3 in S. W. quadrant; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable. Land, level, rolling and hilly. Soil, rich sandy loam, dry, medium texture; 1st. rate, except on ridges which are rocky; 4th. rate. No timber. Undergrowth, mesquite, catclaw and oak.
The land N. and S. of this bdy. E. of this point not being subdivided I run	
	East bet. secs. 2 and 35.
	Descend rocky N. E. slope through dense brush.
6.80	Road bears N. W. to Phoenix and S. E. to Prescott.
7.10	Wash 10 lks. wide course N. W. ascend.
10.40	Spur brs. NW.
12.00	Over level land.
14.55	Wash 30 lks. wide course N. W. and ascend gradually in bottom narrow valley about 5.00 chs. wide.
18.25	Road bears N. W. and S. E.
20.00	Point of spur, brs. S.
21.15	Same wash 60 lks. wide course S. W.
33.50	Road bears N. E. and S. W.
36.40	Road bears N. W. and S. E.
40.00	I make careful search for old ¼ sec. cor., but am unable to find any trace of same. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in ground for reestablished ¼ sec. cor. marked on brass cap 1914 on S. rim; ¼ S35 in N. and S2 in S. half; and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor. Pits impracticable.
42.00	Same wash 100 lks. wide course N. W.
54.00	Point of spur, brs. S.
65.15	Same wash 40 lks. wide course S. W.
67.40	Road bears N. E. and S. W.
73.60	Wash 30 lks. wide course N. W. ascend.
80.00	I make careful search for the old cor. but am unable to find any trace of same. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 1, 2, 35 and 36, marked on brass cap 1914 on S. rim; T14N in N. T13N in S. and R4W in W. half; S35 in N. W. S36 in N. E. S1 in S. E. and S2 in S. W. quadrant; and raise a mound of stone

## 6 Resurvey of the S. bdy. of Tp. 14 N. Rg. 4 W.

Chains.

2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Soil, rocky; 4th. rate, except in bottom of valley which  
is rich black loam; 1st. rate.

Land, mountainous.

No timber.

Undergrowth, oak.

December 7: At this cor. I set off  $22^{\circ} 34'$  S. on the decl.  
arc; and observe the sun on the meridian at noon; the  
resulting lat. is  $34^{\circ} 30'$  N.

East bet. secs. 1 and 36.

Ascend.

7.00 Spur brs. SW., descend.

18.65 Wash 15 lks. wide course S. W. and along in wash ascending.

34.30 Leave wash bears N. E.

40.00 I make careful search for the old  $\frac{1}{4}$  sec. cor., but am  
unable to find any trace of same.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
1914 on S. rim;  
 $\frac{1}{4}$ S36 in N. and

S1 in S. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

67.50 Gulch 15 lks. wide course N. W. and ascend becomes very  
steep.

75.00 High spur brs. NW., and along N. slope.

80.00 I make careful search for old Tp. cor. but am unable to  
find any trace of same.

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in ground  
for reestablished cor. of Tps. 13 & 14 N. Rgs. 3 and 4 W.  
marked on brass cap

1914 on S. rim;

T14N in N.

R3W in E.

T13N in S. and

R4W in W. half;

S36 in N. W.

S31 in N. E.

S6 in S. E. and

S1 in S. W. quadrant; and raise a mound of stone 2  
ft. base  $1\frac{1}{2}$  ft. high, S. of cor. Pits impracticable.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oak.

December 7, 1914.

Retracement of the W. bdy. of Tp. 14 N. Rg. 4 W.

Chains.

166.72

December 3, 1914: At 9h. 00m. a.m., l.m.t., I set off  $34^{\circ} 30''$  N. on the lat. arc;  $22^{\circ} 01\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of Tps. 13 and 14 N. Rgs. 4 and 5 W. hereinbefore described

Thence I run North on a random line along the W. bdy. of Tp. making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors. but without success until at Fall 3.44 chs. E. of the old cor. of secs. 19, 24, 25 and 30, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line bet. the two cors., N.  $1^{\circ} 11' W.$ , 166.76 chs.

December 3, 1914.

41.46

December 4, 1914; At 9h. 00m., a.m., l.m.t., I set off  $34^{\circ} 32'$  N. on the lat. arc;  $22^{\circ} 09\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30.

Thence I run North on a random line along W. bdy. of Tp. bet. secs. 19 and 24.

Fall 56 lks. E. of old  $\frac{1}{4}$  sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line N.  $0^{\circ} 46' W.$  41.46 chs.

41.83

Thence from  $\frac{1}{4}$  sec. cor. I run North Fall 83 lks. E. of old cor. of secs. 13, 18, 19 and 24, which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line N.  $1^{\circ} 08' W.$  41.84 chs.

December 4: At this cor. I set off  $22^{\circ} 11\frac{1}{2}'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32\frac{1}{2}' N.$

40.00

From the old cor. of secs. 13, 18, 19 and 24 I run North bet. secs. 13 and 18.

Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.

83.19

Fall 1.18 chs. E. of point for cor. of secs. 7, 12, 13 and 18, the position of which I determine from the stump of the old bearing tree, the old post having been destroyed. The bearing tree has been destroyed but the stump, with marks faintly visible, remains. From this stump I run S.  $70^{\circ} E.$  24 lks. and re-establish point for old cor.

This falling gives the course of this line N.  $0^{\circ} 49' W.$  83.21 chs.

December 4, 1914.

December 5, 1914: At 8h. 00m., a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $22^{\circ} 15\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at pt. for cor. of secs. 7, 12, 13 and 18,

Thence I run North on a random line bet. secs. 7 and 12.

## Retracement of the W. bdy. of Tp. 14 N. Rg. 4 W.

Chains.	
40.00	I make careful search but am unable to find any trace of the old $\frac{1}{4}$ -sec. cor.
71.74	Fall 25 lks. E. of old cor. of secs. 1, 6, 7 and 12, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line N. $0^{\circ} 12' W.$ 71.74 chs. December 5: At this cor. I set off $22^{\circ} 19\frac{1}{2}' S.$ on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 34\frac{1}{2}' N.$
41.15	From the old cor. of secs. 1, 6, 7 and 12, I run North bet. secs. 1 and 6 Fall 1.37 chs. W. of old $\frac{1}{4}$ sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line N. $1^{\circ} 54' E.$ 41.17 chs.
40.85	Thence from old $\frac{1}{4}$ sec. cor. I run North. Fall 82 lks. W. of the old cor. of Tps. 14 and 15 N. Rgs. 4 and 5 W., which is a stone, firmly set in the ground marked and witnessed as described by the surveyor general. This falling gives the course of this line N. $1^{\circ} 09' E.$ 40.86 chs. December 5, 1914.

## Resurvey of the West bdy. of Township 14 North, Range 4 W.

	December 16, 1914: At 8h. 30m. a.m., l.m.t., I set off $34^{\circ} 30' N.$ on the lat. arc; $23^{\circ} 15\frac{1}{2}' S.$ on the decl. arc; and determine a meridian with the solar at the reestab. cor. of Tps. 13 and 14 N. Rgs. 4 and 5 W. hereinbefore described.
	Thence I run N. $1^{\circ} 11' W.$ on W. bdy. of secs. 30 & 31, setting cors. at distances proportional to those given in original survey.
17.74	Descending along rough N. E. slope through dense brush. Wash 10 lks. wide course N. E. and ascend along S. E. slope.
41.69	Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. $\frac{1}{4}$ sec. cor., marked on brass cap 1914 on S. rim; $\frac{1}{4}$ in W. and S31 in E. half; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
46.75	Spur brs. NE. descend N. slope.
69.36	Wash 10 lks. wide course N. E.
83.38	Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 30 and 31, marked on brass cap 1914 on S. rim; T14N in N. half; S30 in N. E. and S31 R4W in S. E. quadrant; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable
	Land, mountainous. Soil, rocky; 4th. rate. No timber. Undergrowth, oak.

Resurvey of the W. bdy. of Tp. 14 N. Rg. 4 W.

Chains.

N. 1° 11' W. on W. bdy. of sec. 30. . .  
 Along rough general N. E. slope, gradually descending,  
 through dense brush.

39.87 Wash 30 lks. wide course N. E.  
 41.69 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$  in W. and  
 S30 in E. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 December 16; At this cor. I set off  $23^{\circ} 17\frac{1}{2}'$  S. on the  
 decl. arc; and observe the sun n the meridian at noon;  
 the resulting lat. is  $34^{\circ} 30\frac{1}{2}'$  N.

41.87 Wash 30 lks. wide course N. E. ascend.  
 59.37 Ridge bears E. and W. descend.  
 68.67 Wash 20 lks. wide course N. E. ascend.  
 83.38 The old cor. of secs. 19, 24, 25 and 30, hereinbefore de-  
 scribed. I destroy all traces of the old cor. and re-  
 establish it in the same place as follows:  
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the  
 ground for cor. of secs. 19 and 30, marked on brass cap  
 1914 on S. rim;  
 T14N in N. half;  
 S19 in N. E. and  
 R4W S30 in S. E. quadrant; and raise a mound of stone  
 2 ft. base  $1\frac{1}{2}$  ft. high, E. of cor. Pits impracticable.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak.

N. 0° 46' W. along west bdy. sec. 19  
 Over rolling hilly land, through dense brush.

9.50 Wash 20 lks. wide course E.  
 27.40 Wash 20 lks. wide course N. E.  
 35.75 Wash 10 lks. wide course N. E.  
 41.46 The old  $\frac{1}{4}$  sec. cor. hereinbefore described. I destroy all  
 traces of the old cor. and re-establish it in the same  
 place as follows:  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$  in W. and  
 S19 in E. half; from which  
 An oak 8 ins. diam., bears S.  $23^{\circ}$  W. 25  
 lks. dist., marked  $\frac{1}{4}$  S24BT.  
 No other tree available. Raise a mound of stone 2 ft. base  
 $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Thence from  $\frac{1}{4}$  sec. cor.  
 N. 1° 08' W.

2.50 Wash 20 lks. wide course E. ascend..  
 16.90 Top of knoll descend.  
 32.35 Wash 20 lks. wide course N. E..  
 40.50 Wash 20 lks. wide course E.  
 41.84 The old cor. of secs. 13, 18, 19 and 24 hereinbefore de-  
 scribed. I destroy all traces of the old cor. and re-  
 establish it in the same place as follows:  
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the  
 ground for cor. of secs. 18 and 19, marked on brass  
 cap  
 1914 on S. rim;  
 T14N in N. half;  
 S18 in N. E. and  
 S19 R4W in S. E. quadrant; and raise a mound of  
 stone 2 ft. base  $1\frac{1}{2}$  ft. high, E. of cor. Pits imprac-  
 ticable.  
 Land, mountainous and hilly.  
 Soil, rocky; 4th. rate.  
 No timber.

Chains.

Undergrowth, oak and manzanita.

December 16, 1914.

July 16, 1915: At 7h. 00m. a.m., l.m.t., I set off  $34^{\circ} 32\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 31'$  N. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 18 and 19

Thence I run

N.  $0^{\circ} 49'$  W. along W. bdy. of sec. 18.

Over hilly land, general E. slope, through dense brush.

19.60 Wash 20 lks. wide course E.

38.35 Wash 15 lks. wide course E.

41.60 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  $\frac{1}{4}$  in W. andS18 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.From this cor. D. Prestige house bears N.  $87^{\circ} 57'$  E.

61.00 Wash 5 lks. wide course E.

63.70 Wash 5 lks. wide course E. ascend.

70.00 Ridge bears E. and W. descend.

74.50 Wash 5 lks. wide course E. ascend.

78.00 Ridge bears E. and W. descend.

82.10 Wash 10 lks. wide course E. ascend.

83.20 Point for old cor. of secs. 7, 12, 13 and 18, hereinbefore described, I re-establish the cor. in the same place as follows:

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 7 and 18, marked on brass cap 1915 on S. rim;

T14N in N. half;

S7 in N. E. and

S18 R4W in S. E. quadrant; from which

An oak 8 ins. diam., bears N.  $89\frac{1}{2}^{\circ}$  E. 110 lks. dist., marked T14NR4WS7BTAn oak 8 ins. diam., bears S.  $18\frac{1}{2}^{\circ}$  E. 123 lks. dist., marked T14NR4WS18BT.

Land, mountainous and hilly.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oak and manzanita.

N.  $0^{\circ} 12'$  W. along W. bdy. of sec. 7.

Ascend through dense brush.

4.80 Ridge bears E. and W. descend.

16.60 Road bears N. W. and S. E.

22.50 Wash 100 lks. wide course S. E. ascend.

30.50 Ridge bears E. and W. descend.

35.87 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  $\frac{1}{4}$  in W. and

S7 in E. half; from which

A juniper 13 ins. diam., bears N.  $78^{\circ}$  E. 46 lks. dist., marked  $\frac{1}{4}$ S7BT.A juniper 5 ins. diam., bears S.  $13\frac{1}{2}^{\circ}$  E. 288 lks. dist., marked  $\frac{1}{4}$ S7BT.

37.05 Wash 8 lks. wide course S. W. and ascend along general S. W. slope of mountain.

71.74 The old cor. of secs. 1, 6, 7 and 12, hereinbefore described; I destroy all traces of the old cor. and re-establish it in the same place as follows:

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 6 and 7, marked on brass cap

Chains.

1915 on S. rim;  
 T14N in N. half;  
 S6 in N. E. and  
 S7 R4W in S. E. quadrant; and raise a mound of  
 stone 2 ft. base 1½ ft. high, E. of cor. Pits imprac-  
 ticable.  
 July 16: At this cor. I set off 21° 28' N. on the decl.  
 arc; and observe the sun on the meridian at noon; the  
 resulting lat. is 34° 34½' N.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and manzanita.

July 16, 1915.

January 2, 1915; At 1h. 00m. p.m. 1.m.t., I set off 34°  
 34½' N. on the lat. arc; 22° 56' S. on the decl. arc;  
 and determine a meridian with the solar at the reestab.  
 cor. of secs. 6 and 7

Thence I run  
 N. 1° 54' E. bet. secs. 1 and 6.  
 Ascend general S. W. slope of mountain, through dense  
 brush.

41.17 The old ¼ sec. cor. hereinbefore described, I destroy all  
 traces of the old cor. and re-establish it in the same  
 place as follows:

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for ¼ sec. cor., marked on brass cap  
 1915 on S. rim;  
 ¼ in W. and  
 S6 in E. half; and raise a mound of stone 2 ft.  
 base 1½ ft. high, W. of cor. Pits impracticable.

Thence from ¼ sec. cor., continuing measurement,  
 N. 1° 09' E.

45.00 Ridge bears N. W. and S. E. and along E. slope of  
 mountain.

53.70 Wash 10 lks. wide course E.

82.03 The old cor. of Tps. 14 and 15 N. Rgs. 4 and 5 W. ,  
 hereinbefore described, I destroy all traces of the old cor.  
 and re-establish it in the same place as follows;

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the  
 ground for cor. of Tps. 14 and 15 N. Rgs. 4 and 5 W.  
 marked on brass cap

1915 on S. rim;  
 T15N in N.  
 R4W in E.  
 T14N in S. and  
 R5W in W. half;  
 S36 in N. W.  
 S31 in N. E.  
 S6 in S. E. and

S1 in S. W. quadrant; and raise a mound of stone  
 2 ft. base 1½ ft. high, S. of cor. Pits impracticable.

Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and manzanita.

January 2, 1915.

## 12 Resurvey of part of the N. bdy. of Tp. 14 N. Rg. 4 W.

## Chains.

- December 1, 1914: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   $35\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 41\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the Tp., which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.
- Thence I run  
West on a random line along N. bdy. of Tp., making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors. but without success until at
- 120.48 Fall 112 lks. N. of the old  $\frac{1}{4}$  sec. cor. bet. secs. 6 and 31, which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. This falling gives the course of this line between the two cors. N.  $89^{\circ} 28'$  E. 120.48 chs.
- 
- From the old  $\frac{1}{4}$  sec. cor. bet. secs. 6 and 31 I run  
West
- 38.93 Fall 4.33 chs. N. of the old cor. of Tps. 14 and 15 N. Rgs. 4 and 5 W. hereinbefore described. This falling gives the course of this line N.  $83^{\circ} 39'$  E. 39.17 chs. December 1, 1914.
- 
- December 20, 1914: At 9h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   $35\frac{1}{2}'$  N. on the lat. arc;  $23^{\circ} 24'$  S. on the decl. arc; and determine a meridian with the solar at the original cor. of Tps. 14 and 15 N. Rgs. 4 and 5 W. hereinbefore described.
- Thence I run  
N.  $83^{\circ} 39'$  E. bet. secs. 6 and 31  
Descending through very dense brush.
- 13.70 Cross wash 20 lks. wide course N. E.
- 39.18 The old  $\frac{1}{4}$  sec. cor., hereinbefore described, I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1914 on S. rim;  
 $\frac{1}{4}$ S31 in N. and  
S6 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
Thence from  $\frac{1}{4}$  sec. cor., setting cors. at distances proportional to those given in original survey, I run  
N.  $89^{\circ} 28'$  E.
- 3.50 Wash 50 lks. wide course S. and along rough, general S. slope.
- 40.16 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 5, 6, 31 and 32, marked on brass cap  
1914 on S. rim;  
T15N in N.  
T14N in S. and  
R4W in W. half;  
S31 in N. W.  
S32 in N. E.  
S5 in S. E. and  
S6 in S. W. quadrant; from which  
A cedar 12 ins. diam., bears S.  $31^{\circ}$  E. 80 lks. dist., marked T14NR4WS5BT.  
A cedar 12 ins. diam., bears S.  $38\frac{3}{4}^{\circ}$  W. 242 lks. dist., marked T14NR4WS6BT.
- No other trees available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, rocky; 4th. rate.

Chains.

No timber.  
Undergrowth, oak, manzanita and catclaw.  
December 20: At this cor. I set off 23° 25' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 35<sup>1</sup>/<sub>2</sub>' N.

N. 89° 28' E. bet. secs. 5 and 32.  
Along rough general S. slope.  
30.50 Wash 15 lks. wide course S. ascend.  
38.00 Ridge bears N. and S. descend.  
40.16 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. <sup>1</sup>/<sub>4</sub> sec. cor., marked on brass cap  
1914 on S. rim;  
<sup>1</sup>/<sub>4</sub>S32 in N. and  
S5 in S. half; and raise a mound of stone 2 ft. base 1<sup>1</sup>/<sub>2</sub> ft. high, N. of cor. Pits impracticable.  
46.85 Wash 20 lks. wide course S. ascend.  
49.00 Ridge bears N. and S. descend.  
53.60 Wash 15 lks. wide course S. ascend.  
57.50 Ridge bears N. and S. descend.  
62.80 Wash 20 lks. wide course S. ascend.  
67.50 Ridge bears N. and S. descend.  
73.50 Wash 20 lks. wide course S. W. ascend.  
80.32 The old cor. of secs. 4, 5, 32 and 33, hereinafter described, I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, marked on brass cap  
1914 on S. rim;  
T15N in N.  
T14N in S. and  
R4W in W. half;  
S32 in N. W.  
S33 in N. E.  
S4 in S. E. and  
S5 in S. W. quadrant; and raise a mound of stone 2 ft. base 1<sup>1</sup>/<sub>2</sub> ft. high, W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak and manzanita.

December 20, 1914.

December 13, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 35<sup>1</sup>/<sub>2</sub>' N. on the lat. arc; 23° 03<sup>1</sup>/<sub>2</sub>' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 4, 5, 32 and 33.

Thence I run  
East bet. secs. 4 and 33.  
41.06 Fall 63 lks. N. of old <sup>1</sup>/<sub>4</sub> sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.  
This falling gives the course of this line S. 89° 07' E. 41.07 chs.  
I return to the cor. of secs. 4, 5, 32 and 33  
Thence I run  
S. 89° 07' E. bet. secs. 4 and 33.  
Ascend rough N. W. slope, through dense brush.  
6.00 Ridge bears N. E. and S. W. descend steep E. slope.  
24.25 Wash 40 lks. wide course S. ascend steep W. slope.  
35.44 Road bears N. E. and S. W.  
41.07 The old <sup>1</sup>/<sub>4</sub> sec. cor. I destroy all traces of the old cor.

## 14 Resurvey of part of the N. bdy. of Tp. 14 N. Rg. 4 W.

Chains.

- and re-establish it in the same place as follows;  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S33 in N. and  
 S4 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 Thence from reestab.  $\frac{1}{4}$  sec. cor. I run  
 East
- 40.95 Fall 74 lks. N. of the old cor. of secs. 3, 4, 33 and 34, which is a post  $2\frac{1}{2} \times 2\frac{1}{2} \times 26$  ins. loosely set in the ground, with marks illegible. I destroy all traces of the old cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, marked on brass cap  
 1914 on S. rim;  
 T15N in N.  
 T14N in S. and  
 R4W in W. half;  
 S33 in N. W.  
 S34 in N. E.  
 S3 in S. E. and  
 S4 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.  
 This falling gives the course of this line  $S88^{\circ} 57' E.$   
 40.96 chs.  
 I return to the reestab.  $\frac{1}{4}$  sec. cor. bet. secs. 4 and 33  
 Thence I run  
 $S. 88^{\circ} 57' E.$  bet. secs. 4 and 33.  
 Over rolling hilly land, through dense brush.
- 40.44 Road bears N. W. and S. E.
- 40.96 The reestab. cor. of secs. 3, 4, 33 and 34, hereinbefore described.  
 Land, mountainous, hilly and rolling.  
 Soil, W.  $\frac{1}{2}$  mile, rocky; 4th. rate. E.  $\frac{1}{2}$  mile, decomposed granite, dry, coarse texture; 1st. rate.  
 No timber.  
 Undergrowth, oak.  
 December 13: At this cor. I set off  $23^{\circ} 07' S.$  on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 35\frac{1}{2}' N.$
- 
- 40.94 East bet. secs. 3 and 34  
 Fall 23 lks. S. of the old  $\frac{1}{4}$  sec. cor. which is a post  $28 \times 3 \times 2$  ins. lying on ground, with traces of pits and mound of earth, marks illegible. I destroy all traces of this cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S34 in N. and  
 S3 in S. half; dig pits 18 x 18 x 12 ins. E. and W. or post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 This falling gives the course of this line  $N. 89^{\circ} 41' E.$   
 40.94 chs.  
 I return to the reestab. cor. of secs. 3, 4, 33 and 34,  
 Thence I run  
 $N. 89^{\circ} 41' E.$  bet. secs. 3 and 34.  
 Over rolling hilly land, through dense brush.
- 36.40 Road bears N. and S.
- 37.36 Wash 35 lks. wide course S.
- 40.94 The reestab.  $\frac{1}{4}$  sec. cor. hereinbefore described.  
 Thence from reestab.  $\frac{1}{4}$  sec. cor. I run

40.98

East  
Fall 31 lks. S. of the old cor. of secs. 2, 3, 34 and 35, which is a post 28 x 3 x 3 ins. lying on top of ground, with marks illegible. Traces of pits and mound of earth.

I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked on brass cap

- 1914 on S. rim;
- T15N in N.
- T14N in S. and
- R4W in W. half;
- S34 in N. W.
- S35 in N. E.
- S2 in S. E. and
- S3 in S. W. quadrant;

dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist., and raise a mound of earth 4 ft. base 2 1/2 ft. high, W. of cor.

This falling gives the course of this line N. 89° 34' E. 40.98 chs.

I return to the reestab. 1/4 sec. cor. bet. secs. 3 and 34 Thence I run N. 89° 34' E.

9.25

Wash 200 lks. wide course S.

40.98

The reestab. cor. of secs. 2, 3, 34 and 35, hereinbefore described.

Land, rolling hills.  
Soil, loam and decomposed granite; dry, medium texture; 1st. rate.

No timber.  
Undergrowth, oak.

December 13, 1914.

Return of the N. bdy. of Tp. 14 N. Rg. 4 W.

Subdivided portion of Tp. 14 N. Rg. 4 W. Latitudes; departures and closing errors.							
Line designated.	True bearing.	Dist.	Latitudes.		Departures.		
			N.	S.	E.	W.	
			Chs.	Chs.	Chs.	Chs.	
South bdy. of Tp.	S. 89° 14' W.	40.20		.54		40.20	
	S. 89° 06' W.	80.28		1.26		80.27	
	S. 88° 42' W.	203.50		4.63		203.45	
West bdy. of Tp.	N. 1° 11' W.	166.76	166.72				3.44
	N. 0° 46' W.	41.46	41.46				.56
	N. 1° 08' W.	41.84	41.83				.83
	N. 0° 49' W.	83.20	83.19				1.18
	N. 0° 12' W.	71.74	71.74				.25
	N. 1° 54' E.	41.17	41.15			1.37	
	N. 1° 09' E.	40.86	40.85			.82	
North bdy. of Tp.	N. 83° 39' E.	39.18	4.33			38.93	
	N. 89° 28' E.	120.48	1.12			120.48	
	S. 89° 07' E.	41.07		.63		41.06	
	S. 88° 57' E.	40.96		.74		40.95	
	N. 89° 41' E.	40.94	.23			40.94	
	N. 89° 34' E.	40.98	.31			40.98	
E. bdy. of Township Subdivisional Boundary.	S. 0° 19' E.	78.90		78.90		.44	
	S. 1° 49' E.	41.05		41.03		1.30	
	S. 0° 11' W.	41.16		41.16			.13
	S. 1° 30' W.	82.14		82.11			2.15
	S. 1° 10' W.	40.52		40.51			.82
	S. 3° 18' E.	40.10		40.03		2.31	
	S. 1° 06' E.	81.36		81.35		1.56	
	South	40.43		40.43			
S. 2° 32' E.	40.17		40.13		1.78		
<b>Convergency</b>						.33	
<b>Totals.</b>			492.93	493.45	333.25	333.28	
				492.93	333.15		
<b>Error in lat.</b>				.52			333.25
<b>Error in dep.,</b>							in 0.03.

GENERAL DESCRIPTION.

The central part of Tp. 14 N. Rg. 4 W. is rolling hills, and the remainder of the township is rough and mountainous.

The township generally is covered with a dense growth of oak brush. There is fine land in the valleys.

*John P. Hesse*  
U. S. Surveyor.

Chains.

Resurvey commenced November 24, 1914, and executed with an A. Lietz light mountain transit, No. 6166, with solar attachment. For description of instrument, certificate of approval and field test for adjustments of transit and solar, see notes of the survey of the S. bdy. of Tp. 14 N. Rg. 4 W.

December 14, 1914; At lh. 30m. p.m., l.m.t., I set off 34° 30' N. on the lat. arc; 23° 11' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp. hereinbefore described.

Thence I run

North bet. secs. 34 and 35

40.13 Fall 1.78 chs. E. of the old ¼ sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. I destroy all traces of this old cor. and re-establish it in the same place as follows:

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap

1914 on S. rim;

¼S34 in W. and

S35 in E. half; and raise a mound of stone 2 ft.

base 1½ ft. high, W. of cor. Pits impracticable.

This falling gives the course of this line N. 2° 32' W. 40.17 chs.

I return to the cor. of secs. 2, 3, 34 and 35

Thence I run

N. 2° 32' W. bet. secs. 34 and 35.

Descend through dense brush.

3.00 Over level land.

3.91 Road hrs. E. and W.

9.35 Wash 150 lks. wide course S. W.

15.00 Ascend

17.78 Ridge bears N. E. and S. W. descend.

25.76 Wash 4 lks. wide course S. W. ascend.

29.14 Ridge bears N. E. and S. W. descend.

33.50 Draw 200 lks. wide course S. W. ascend.

37.00 Spur hrs. SW; descend.

40.17 The reestab. ¼ sec. cor. hereinbefore described.

Thence from reestab. ¼ sec. cor. I run

North

Descending along N. W. slope.

7.14 Wash 20 lks. wide course S. W. ascend.

36.63 Ridge bears N. E. and S. W. descend.

40.43 The old cor. of secs. 26, 27, 34 and 35, which is a stone marked and witnessed as described by the surveyor general. I destroy all traces of the old cor. and re-establish it in the same place as follows:

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, marked on brass cap

1914 on S. rim;

T14NR4W in N. half;

S27 in N. W.

S26 in N. E.

S35 in S. E. and

S34 in S. W. quadrant; from which

A pinon 6 ins. diam., bears N. 84½° E. 34 lks. dist., marked T14NR4WS26BT.

A pinon 6 ins. diam., bears S. 15¼° E. 58 lks. dist., marked T14NR4WS35BT.

No other bearings available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.

Land, level and mountainous.

Soil, rocky; 4th. rate, except from 3.00 to 15.00 chs. in S. ½ mile which is rich sandy loam, dry, medium texture; 1st. rate.

No timber.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

Undergrowth, oak.

December 14, 1914.

December 15:1914;

From the reestab. cor. of secs. 26, 27, 34 and 35, I run North bet. secs. 26 and 27.

40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.

81.35 Fall 1.56 chs. E. of the old cor. of secs. 22, 23, 26 and 27, which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old cor. and re-establish it in the same place as follows;

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 22, 23, 26, and 27, marked on brass cap

- 1914 in S. rim;
- T14NR4W in N. half;
- S22 in N. W.
- S23 in N. E.
- S26 in S. E. and

S27 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. This falling gives the course of this line N.  $1^{\circ} 06'$  W. 81.36 chs.

I return to the reestab. cor. of secs. 26, 27, 34 and 35, Thence I run

N.  $1^{\circ} 06'$  W. bet. secs. 26 and 27.

Along general W. slope of mountains, through dense brush and scattering timber.

3.97 Spur brs. W.; descend.

11.12 Wash 10 lks. wide course W. ascend.

11.92 Spur brs. W.; descend.

13.30 Wash 30 lks. wide course W. ascend.

21.32 Spur brs. W.; desc. Leave timber.

24.56 Wash 15 lks. wide course W. ascend.

30.65 Spur W.; descend.

36.49 Wash 30 lks. wide course W. ascend.

40.68 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

- 1914 on S. rim;
- $\frac{1}{4}$ S27 in W. and
- S26 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

42.36 Spur brs. W.; descend.

53.86 Wash 10 lks. wide course S. W. ascend.

55.80 Spur brs. W.; descend.

62.75 Wash 20 lks. wide course S. W. ascend.

64.44 Wash 20 lks. wide course S. W. ascend.

72.66 Spur brs. W.; descend.

81.36 The reestab. cor. of secs. 22, 23, 26 and 27, hereinbefore described.

Land, mountainous.

Soil, rocky; 4th. rate.

Timber, pinon and cedar.

Undergrowth, oak.

December 15, 1914.

December 22, 1914: At 8h. 00m. a.m., 1.m.t., I set off  $34^{\circ} 32'$  N. on the lat. arc;  $23^{\circ} 23'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 22, 23, 26 and 27.

Thence I run

North bet. secs. 22 and 23.

part of

Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

40.03

Fall 2.31 lks. E. of the old  $\frac{1}{4}$  sec. cor., which is a stone marked and witnessed as described by the surveyor general. I destroy all traces of the old  $\frac{1}{4}$  sec. cor. and re-establish it in the same place as follows; Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap

1914 on S. rim;  
 $\frac{1}{4}$ S22 in W. and  
 S23 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 This falling gives the course of this line N. 3° 18' W.

5.37

10.92

20.00

30.30

33.50

40.10

40.10 chs.  
 I return to the reestab. cor. of secs. 22, 23, 26 and 27 Thence I run N. 3° 18' W. bet. secs. 22 and 23. Along rough W. slope of mountains through dense brush. Wash 20 lks. wide course S. W. Road bears N. E. and S. W. Ascend. Ridge, brs. NE. and SW.; descend. Wash, 5 lks. wide, course SW.; ascend. The reestab.  $\frac{1}{4}$  sec. cor. on top ridge, brs. NE. and SW.

40.51

Thence from reestab.  $\frac{1}{4}$  sec. cor. I run North  
 Fall 82 lks. W. of old cor. of secs. 14, 15, 22 and 23 which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old cor. and re-establish it in the same place as follows; Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23, marked on brass cap

1914 on S. rim;  
 T14NR4W in N. half;  
 S15 in N. W.  
 S14 in N. E.  
 S23 in S. E. and  
 S22 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 This falling gives the course of this line N. 1° 10' E.

13.80

16.85

23.70

29.30

37.00

40.52

40.52 chs.  
 I return to the reestab.  $\frac{1}{4}$  sec. cor. Thence I run N. 1° 10' E. Descend. Wash 15 lks. wide course W. ascend. Ridge bears N. E. and S. W. descend. Wash 10 lks. wide course S. W. ascend. Ridge bears N. E. and S. W. descend. Wash 30 lks. wide course S. W. ascend. The reestab. cor. of secs. 14, 15, 22 and 23 hereinbefore described.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, Oak, crucifixion and black brush.  
 December 22: At this cor. I set off 23° 25 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 32 $\frac{1}{2}$ ' N.

40.00

North bet. secs. 14 and 15. Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.

82.11

Fall 2.15 chs. W. of the old cor. of secs. 10, 11, 14 and 15, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old cor. and re-establish it in the same place as follows:

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

chains.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15, marked on brass cap  
 1914 on S. rim;  
 T14NR4W in N. half;  
 S10 in N. W.  
 S11 in N. E.  
 S14 in S. E. and  
 S15 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable. This falling gives the course of this line N.  $1^{\circ}30'$  E. 82.14 chs.

I return to the reestab. cor. of secs. 14, 15, 22 and 23 Thence I run N.  $1^{\circ}30'$  E. bet. secs. 14 and 15, Ascending through dense brush, along general W. slope. Ridge bears N. E. and S. W. descend.

10.60  
 21.50 Wash 15 lks. wide course S. W.  
 29.00 Ridge bears E. and W. descend.  
 41.07 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S15 in W. and  
 S14 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

41.97 Wash 50 lks. wide course W. and ascend.  
 43.22 Road bears N. E. and S. W.  
 48.62 Telegraph line bears N. E. and S. W.  
 49.58 S. F. P. & P. Ry. bears N. E. and S. W.  
 82.14 The reestab. cor. of secs. 10, 11, 14 and 15, hereinbefore described.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and buck brush.

December 22, 1914.

December 23, 1914: At 8h. 30m. a.m., l.m.t., I set off  $34^{\circ}33\frac{1}{2}'$  N. on the lat. arc;  $23^{\circ}24'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 10, 11, 14 and 15.

Thence I run North bet. secs. 10 and 11.

41.16 Fall 13 lks. W. of the old  $\frac{1}{4}$  sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general. I destroy all traces of the old  $\frac{1}{4}$  sec. cor. and re-establish it in the same place as follows;  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S10 in W. and  
 S11 in E. half; dig pits 18 x 18 x 12 ins. N. and S of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor.  
 This falling gives the course of this line N.  $0^{\circ}11'$  E. 41.16 chs.

I return to the reestab. cor. of secs. 10, 11, 14 and 15. Thence I run N.  $0^{\circ}11'$  E. bet. secs. 10 and 11 Ascend through dense brush.

3.40 Ridge bears N. E. and S. W. descend.  
 9.80 Wash 10 lks. wide course S. W. ascend.  
 14.50 Spur, hrs SW. descend.  
 17.15 Wash 10 lks. wide course S. W. ascend.  
 22.90 Ridge bears E. and W. descend.  
 30.40 Draw 200 lks. wide course W. ascend.  
 36.50 Spur bears W. descend.

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Chains.  
 41.16 The reestab.  $\frac{1}{4}$  sec. cor. hereinbefore described.  
 Thence from reestab.  $\frac{1}{4}$  sec. cor. I run  
 North  
 41.03 Fall 1.30 chs. E. of the old cor. of secs. 2, 3, 10 and  
 11, which is a stone firmly set in the ground, marked and  
 witnessed as described by the surveyor general. I de-  
 stroy all traces of the old cor. and re-establish it  
 in the same place as follows:  
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor. of secs. 2, 3, 10 and 11, marked on  
 brass cap  
 1914 on S. rim;  
 T14NR4W in N. half;  
 S3 in N. W.  
 S2 in N. E.  
 S11 in S. E. and  
 S10 in S. W. quadrant; from which  
 A juniper 12 ins. diam., bears N.  $5\frac{1}{2}^{\circ}$  E. 184  
 lks. dist., marked T14NR4WS2BT.  
 No other bearings available. Raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 This falling gives the course of this line N.  $1^{\circ} 49'$  W.  
 41.05 chs.  
 I return to the reestab.  $\frac{1}{4}$  sec. cor.,  
 Thence I run  
 N.  $1^{\circ} 49'$  W. bet. secs. 10 and 11  
 11.32 Wash 10 lks. wide course S. W. and over rolling hilly  
 land.  
 40.35 Wash 10 lks. wide course S. W.  
 41.05 The reestab. cor. of secs. 2, 3, 10 and 11, hereinbefore  
 described.  
 Land, mountainous and hilly.  
 Soil, S.  $\frac{1}{2}$  mile rocky; 4th. rate. N.  $\frac{1}{2}$  mile loam and  
 decomposed granite, medium texture; dry, 2nd. rate.  
 No timber.  
 Undergrowth, oak.  
 December 23: At this cor. I set off  $23^{\circ} 25\frac{1}{2}'$  S. on the  
 decl. arc; and observe the sun on the meridian at noon  
 the resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.

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40.00 North bet. secs. 2 and 3.  
 Make careful search but am unable to find any trace of  
 the old  $\frac{1}{4}$  sec. cor.  
 78.90 Fall 44 lks. E. of the reestab. cor. of secs. 2, 3, 34  
 and 35, on the N. bdy. of the Tp. hereinbefore describ-  
 ed.  
 Thence I run  
 Setting  $\frac{1}{4}$  sec. cor. at distance proportional to that  
 given in the notes of the original survey.  
 S.  $0^{\circ} 19'$  E. bet. secs. 2 and 3.  
 Over rolling, hilly land, through dense brush.  
 39.55 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S3 in W. and  
 S2 in E. half; dig pits 18 x 18 x 12 ins. N. and  
 S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$   
 ft. base  $1\frac{1}{2}$  ft. high, W. of cor.  
 48.90 Wash 10 lks. wide course S. W.  
 78.90 The reestab. cor. of secs. 2, 3, 10 and 11.  
 Land, rolling hills.  
 Soil, decomposed granite mixed with loam, dry, medium  
 texture; 2nd. rate.  
 No timber.  
 Undergrowth, oak.

December 23, 1914.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.	
	December 14, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 30' N. on the lat. arc; 23° 08' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp. hereinbefore described.
	Thence I run North bet. secs. 33 and 34.
40.00	I make careful search but am unable to find any trace of old $\frac{1}{4}$ sec. cor..
80.00	I make careful search but am unable to find any trace of the old cor. of secs. 27, 28, 33 and 34.
80.46	At this point I set a temp. point for the N. and S. position of cor. of secs. 27, 28, 33 and 34. There is no trace of the old cor. but this position is determined from a line of fence running E. from the $\frac{1}{4}$ sec. cor. bet. secs. 28 and 33, which fence I am informed by the settlers was built on a line determined before the cor. of secs. 27, 28, 33 and 34 had disappeared.
118.35	Fall 4.09 chs. E. of point for old $\frac{1}{4}$ sec. cor. The position of this $\frac{1}{4}$ sec. cor. was determined by fence lines to the N. and E. of $\frac{1}{4}$ sec. cor. and the temp. $\frac{1}{4}$ sec. cor. established at their intersection, if prolonged.
	Thence from $\frac{1}{4}$ sec. cor. point. North
44.47	Fall 1.55 chs. E. of the old cor. of secs. 21, 22, 27 and 28, which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.
	From the point for temp. $\frac{1}{4}$ sec. cor., bet. secs. 27 and 28 I run
	S. 1° 59' E.
38.00	Set temp. cor. of secs. 27, 28, 33 and 34, on fence line, brs. (E. & W.)
78.21	Set temp. $\frac{1}{4}$ sec. cor.
118.42	The reestab. cor. of secs. 3, 4, 33 and 34.

December 14, 1914.

	December 15: At 8h. 00m. a.m., l.m.t., I set off 34° 31' N. on the lat. arc; 23° 11 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. secs. 28 and 33, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.
	Thence I run East on a random line.
40.00	Make careful search but am unable to find any trace of old cor. of secs. 27, 28, 33 and 34
80.00	Make careful search but am unable to find any trace of old $\frac{1}{4}$ sec. cor.
119.94	Fall 2.63 chs. S. of the reestab. cor. of secs. 26, 27, 34 and 35 hereinbefore described.
	This falling gives the course of this line N. 88° 45' E. 119.97 chs.
	Thence I run setting temp. cors. at distances proportional to those given in the notes of original survey.
	S. 88° 45' W.
39.99	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Set temp. cor. of secs. 27, 28, 33 and 34.
119.97	The old $\frac{1}{4}$ sec. cor. bet. secs. 28 and 33, hereinbefore described.

December 15, 1914.

December 21; 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 31' N. on the lat. arc; 23° 23' S. on the decl. arc; and determine a meridian with the solar at the temp. cor. of secs. 27, 28, 33 and 34, on the N. and S. line.

Thence I run 142 lks. E., and from the temp. cor. of secs.

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W. 7 23

Chains.

27, 28, 33 and 34 on the E. and W. line, I run 40 lks. N. to point of intersection of the two lines, where I Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 27, 28, 33 and 34, marked on brass cap  
 1914 on S. rim;  
 T14NR4W in N. half;  
 S28 in N. W.  
 S27 in N. E.  
 S34 in S. E. and  
 S33 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base  $1\frac{1}{2}$  ft. high, W. of cor.

Thence I run

S.  $0^{\circ} 58'$  E. bet. secs. 33 and 34.

Ascend, through dense brush.

- 2.96 Spur brs. W. & descend.
- 7.46 Wash 10 lks. wide course W. ascend.
- 22.56 Ridge bears E. and W. descend.
- 30.95 Over level land, leave brush.
- 32.00 Wash 30 lks. wide course S. W.
- 36.75 Wash 5 lks. wide course S. W.
- 40.23 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S33 in W. and  
 S34 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor.  
 This cor. is also Cor. No. 1 the N. E. cor. of Tract No. 37.

Thence along E. bdy. of tract No. 37

- 42.35 Ascend through dense brush.
- 43.30 Spur brs. W.
- 45.50 Spur brs. W.; descend.
- 49.90 Wash 15 lks. wide course S. W.
- 53.45 Wash 15 lks. wide course N. W.
- 65.70 Wash 10 lks. wide course S. W.
- 66.75 Wash 10 lks. wide course S. W.
- 67.90 Wash 5 lks. wide course S. W. ascend.
- 72.25 Spur brs. SW.; descend.
- 75.75 Over level land, leave brush.
- 80.46 The reestab. cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp. hereinbefore described.  
 Land, level, rolling, and mountainous.  
 Soil, sandy loam, dry, medium texture; 1st. rate; except on ridges and spurs which is rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak.

N.  $89^{\circ} 02'$  E. bet. secs. 27 and 34.

Ascending through dense brush.

- 6.10 Ridge bears N. E. and S. W. descend.
- 10.50 Wash 5 lks. wide course S. W. ascend.
- 17.00 Spur brs. SW.; descend.
- 22.98 Wash 10 lks. wide course S. W. ascend.
- 29.20 Spur brs. SW.; descend.
- 32.00 Wash 30 lks. wide course S. W. and over level land.
- 39.99 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S27 in N. and  
 S34 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.
- 40.63 Wash 15 lks. wide course S. W.
- 45.20 Wash 5 lks. wide course S. W. ascend.
- 65.00 Ridge bears N. E. and S. W. descend.
- 69.30 Wash 10 lks. wide course S. W. ascend.

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

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Chains.

75.58 Wash 5 lks. wide course N. W.  
79.98 The reestab. cor. of secs. 26, 27, 34 and 35.  
Land, mountainous and level.  
Soil, rocky; 4th. rate. Across flat, sandy loam, dry, medium texture; 1st. rate.  
No timber.  
Undergrowth, oak.  
December 21: At this cor. I set off  $23^{\circ} 25\frac{1}{2}'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 31'$  N.

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N.  $4^{\circ} 07'$  W. bet. secs. 27 and 28.  
Over level land.  
1.90 Wash 30 lks. wide course S. W.  
5.00 Ascend through dense brush.  
12.05 Ridge bears N. E. and S. W. descend.,  
34.00 Over level land, leave brush. Road brs. NE. and SW.  
36.57 Telegraph line bears N. E. and S. W.  
38.00 Point for old  $\frac{1}{4}$  sec. cor. hereinbefore described. I re-establish  $\frac{1}{4}$  sec. cor. at this point as follows:  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
1914 on S. rim;  
 $\frac{1}{4}$ S28 in W. and  
S27 in E. half; from which  
A telegraph pole bears N.  $34^{\circ} 52'$  E. 195 lks. dist., marked  $\frac{1}{4}$ S27BT.  
A telegraph pole bears S.  $1^{\circ} 30'$  E. 132 lks. dist., marked  $\frac{1}{4}$ S27BT.  
From this cor.  
F. Lang house bears N.  $9^{\circ} 30'$  E.  
L. E. Ehle house bears S.  $46^{\circ} 50'$  W.  
Aaron Stull house bears N.  $32^{\circ} 42'$  W. 30.06 chs. dist.  
Thence from reestab.  $\frac{1}{4}$  sec. cor. I run  
N.  $2^{\circ} 00'$  W.  
0.22 S. F. P. and P. Ry. bears N.  $19^{\circ} 51'$  E. and S.  $19^{\circ} 51'$  W.  
3.27 Road bears N. E. and S. W.  
4.40 Fence bears N. E. and S. W. and along a fence bears N.  
16.25 Wash 40 lks. wide course S. W.  
32.78 Wash 10 lks. wide course S. W.  
39.50 Leave fence running N. and cross fence bears N. E. and S. W.  
40.75 Ascend through dense brush.  
44.50 The old cor. of secs. 21, 22, 27 and 28, hereinbefore described. I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28, marked on brass cap  
1914 on S. rim;  
T14NR4W in N. half;  
S21 in N. W.  
S22 in N. E.  
S27 in S. E. and  
S28 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Land, level and hilly.  
Soil, sandy loam, dry; medium texture; 1st. rate; except on ridge, which is rocky; 4th. rate.  
No timber.  
Undergrowth, oak.  
From this cor., F. Lang house bears S.  $6^{\circ} 11'$  E., L. E. Ehle house bears S.  $4^{\circ} 46'$  W. December 21, 1914:

December 28, 1914: At 8h. 00m. a.m., l.m.t., I set off.

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Chains.

34° 32' N. on the lat. arc; 23° 15' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 21, 22, 27 and 28,  
 Thence I run  
 East bet. secs. 22 and 27.  
 41.43 Fall 33 lks. N. of the old  $\frac{1}{4}$  sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.  
 Thence from old  $\frac{1}{4}$  sec. cor. I run  
 East  
 40.98 Fall 62 lks. S. of the re-estab. cor. of secs. 22, 23, 26 and 27, hereinbefore described.  
 These fallings give the course of the W.  $\frac{1}{2}$  mile, N. 89° 33' W. and of the E.  $\frac{1}{2}$  mile S. 89° 08' W.  
 From the reestab. cor. of secs. 22, 23, 26 and 27 I run S. 89° 08' W. bet. secs. 22 and 27.  
 Descending through dense brush.  
 3.00 Wash 20 lks. wide course S. W.  
 7.43 Road bears N. E. and S. W.  
 18.98 Ascend.  
 23.50 Ridge bears N. E. and S. W. descend.  
 35.98 Over level land, leave brush.  
 40.98 The old  $\frac{1}{4}$  sec. cor. hereinbefore described, I destroy all traces of the old cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 in S. rim;  
 $\frac{1}{4}$ S22 in N. and  
 S27 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base 1 $\frac{1}{2}$  ft. high, N. of cor.  
 Thence from reestab.  $\frac{1}{4}$  sec. cor.  
 N. 89° 33' W.  
 Over level land.  
 15.00 Ascend.  
 17.13 Top of knoll at N. W. end of spur, descend.  
 19.13 Over rolling land.  
 21.15 Cross road bears N. E. and S. W.  
 21.33 Telegraph line bears N. E. and S. W.  
 21.88 S. F. P. & P. Ry. bears N. E. and S. W.  
 23.57 Wash 30 lks. wide course S. W.  
 25.15 Fence bears N. and S.  
 35.13 Wash 15 lks. wide course S.  
 40.08 Fence bears N. and S. leave valley, enter brush, and ascend rolling hills.  
 41.43 The reestab. cor. of secs. 21, 22, 27 and 28, hereinbefore described.  
 Land, level and mountainous.  
 Soil, sandy loam, dry, medium texture; 1st. rate; except on ridges which is rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak.  
 December 28: At this cor. I set off 23° 16 $\frac{1}{2}$ ' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 32' N.

December 28, 1914.

December 24, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 32' N. on the lat. arc; 23° 22' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 21, 22, 27 and 28.  
 Thence I run  
 North bet. secs. 21 and 22.  
 40.63 Fall 49 lks. E. of old  $\frac{1}{4}$  sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

This falling gives the course of this line N. 0° 41' W.  
40.63 chs.  
Thence from  $\frac{1}{4}$  sec. cor.  
North  
40.74 Fall 82 lks. E. of old cor. of secs. 15, 16, 21 and 22,  
which is a stone, firmly set in the ground, marked  
with 3 grooves on S. and E. faces.  
This falling gives the course of this line N. 1° 09' W.  
40.75 chs.

December 24, 1914.

January 19, 1915: At 8h. 00m. a.m., l.m.t., I set off 34°  
32' N. on the lat. arc; 20° 25' S. on the decl. arc;  
and determine a meridian with the solar at the reestab.  
cor. of secs. 21, 22, 27 and 28 ~~hereinbefore~~ described.  
Thence I run  
N. 0° 41' W. bet. secs. 21 and 22,  
Over rolling, hilly land, through dense brush.  
40.63 The old  $\frac{1}{4}$  sec. cor. ~~hereinbefore~~ described. I destroy all  
traces of the old cor. and re-establish it in the same  
place as follows:  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S21 in W. and  
S22 in E. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
Thence from reestab.  $\frac{1}{4}$  sec. cor.  
N. 1° 09' W.

37.45 Wash 40 lks. wide course S. W.  
40.75 The old cor. of secs. 15, 16, 21 and 22, ~~hereinbefore~~ re-  
described. I destroy all traces of the old cor. and re-esta-  
blish it in the same place as follows:  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for cor. of secs. 15, 16, 21 and 22, marked on  
brass cap  
1915 in S. rim;  
T14NR4W in N. half;  
S16 in N. W.  
S15 in N. E.  
S22 in S. E. and  
S21 in S. W. quadrant; dig pits 18 x 18 x 12 ins.  
in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth  
4 ft. base 2 ft. high, W. of cor.  
Land, rolling hills.  
Soil, decomposed granite; 2nd. rate.  
No timber.  
Undergrowth, oak.

January 19, 1915.

December 28: 1914.  
From the reestab. cor. of secs. 15, 16, 21 and 22  
I run  
East bet. secs. 15 and 22.  
40.00 Make careful search but am unable to find any trace of the  
old  $\frac{1}{4}$  sec. cor..  
82.24 Fall 65 lks. N. of the reestab. cor. of secs. 14, 15, 22,  
and 23 ~~hereinbefore~~ described.  
This falling gives the course of this line N. 89° 33' W.  
82.24 chs.  
Thence I run, setting  $\frac{1}{4}$  sec. cor. at distance proportional  
to that given in the notes of the original survey.  
N. 89° 33' W. bet. secs. 15 and 22.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W. 27

Chains. Ascend S. E. slope of spur, through dense brush.  
 2.10 Spur brs. SW.; descend.  
 4.40 Wash 10 lks. wide course S. W. ascend.  
 11.17 Ridge bears N. E. and S. W. descend.  
 33.94 Road bears N. and S. and over level land.  
 35.35 Telegraph line bears N. and S.  
 35.95 S. F. P. and P. Ry. bears N. and S.  
 41.12 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1914 on S. rim;  
 $\frac{1}{4}$  S15 in N. and S22 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 44.31 Wash 40 lks. wide course S. W. and ascend over rolling hilly land.  
 57.44 Cross wash 10 lks. wide course S. W.  
 80.00 Cross wash 30 lks. wide course S. W.  
 82.24 The reestab. cor. of secs. 15, 16, 21 and 22, hereinbefore described.  
 Land, hilly and level.  
 Soil, rocky; 4th. rate; except across level, which is a sandy loam, dry, medium texture; 1st. rate.  
 No timber.  
 Undergrowth, oak.

December 28, 1914.

December 24, 1914.  
 I commence at the reestab. cor. of secs. 15, 16, 21 and 22, hereinbefore described.  
 Thence I run  
 North bet. secs. 15 and 16, making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors. but without success, until at  
 164.33 Fall 110 lks. W. of the old cor. of secs. 3, 4, 9 and 10, which is a stone, firmly set in the ground, marked and witnessed as described by the surveyor general.  
 This falling gives the course of this line N. 0° 25' E. 164.34 chs.  
 Thence I run  
 S. 0° 25' W. setting temp. cors. at distances proportional to those given in the notes of the original survey.  
 41.08  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.  
 82.17 Set temp. cor. of secs. 9, 10, 15 and 16.  
 123.25  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.  
 164.34 The reestab. cor. of secs. 15, 16, 21 and 22, hereinbefore described. Dec. 24, 1914.

December 29, 1914: At 8h. 00m. a.m., l.m.t., I set off 34° 33  $\frac{1}{2}$ ' N. on the lat. arc; 23° 12' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs, 10, 11, 14 and 15.  
 Thence I run  
 West bet. secs. 10 and 15, making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors. but without success, until at  
 165.63 Fall 205 lks. N. of the old cor. of secs. 8, 9, 16 and 17, which is the remains of a post, badly rotted, with a trace of mound and pits.  
 This falling gives the course of this line N. 89° 17' E. 165.66 chs.  
 Thence I run  
 N. 89° 17' E. setting temp. cors. at distances proportional to those given in the notes of the original survey.  
 41.38  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.  
 82.77 Set temp. cor. of secs. 9, 10, 15 and 16.  
 124.21 Set temp.  $\frac{1}{4}$  sec. cor.  
 165.65 The reestab. cor. of secs. 10, 11, 14 and 15, hereinbefore

part of  
 chains Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

described.

December 29, 1914

December 30, 1914: At 8h. 00m. a.m.; l.m.t., I set off  
 34° 33 $\frac{1}{2}$ ' N. on the lat. arc; 23° 08' S. on the decl.  
 arc; and determine a meridian with the solar at the  
 temp. cor. of secs. 9, 10, 15 and 16, on the N. and  
 S. line.

Thence I run 93 lks. E., and from the temp. cor. of  
 secs. 9, 10, 15 and 16, on the E. and W. line, I run  
 164 lks. N. to point of intersection of the two lines  
 where I

Set an iron post 3 ft. long, 2 ins. diam., in a mound of  
 stone, for reestab. cor. of secs. 9, 10, 15 and 16,  
 Marked on brass cap

1914 on S. rim;

T14NR4W in N. half;

S9 in N. W.

S10 in N. E.

S15 in S. E. and

S16 in S. W. quadrant; and raise a mound of stone

2 ft. base 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Thence I run

S. 1° 04' W. bet. secs. 15 and 16.

Over huge granite boulders.

3.00 Descend.

7.37 Wash 10 lks. wide course W. and over rolling hilly land,  
 through dense brush.

24.15 Wash 10 lks. wide course W.

34.61 Wash 10 lks. wide course W.

41.08 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

1914 on S. rim;

$\frac{1}{4}$ S16 in W. and

S15 in E. half; dig pits 18 x 18 x 12 ins. N. and

S. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$   
 ft. base 1 $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

65.25 Wash 20 lks. wide course S. W.

82.17 The reestab. cor. of secs. 15, 16, 21 and 22, hereinbefore  
 described.

Land, rolling and mountainous.

Soil, decomposed granite mixed with loam, dry, medium  
 texture; 1st. rate; except 1st. 7.37 chs. which is  
 rocky; 4th. rate.

No timber.

Undergrowth, oak.

S. 89° 39' E. bet. secs. 10 and 15.

Ascend over huge granite boulders, through dense brush.

8.90 Ridge bears N. and S. descend.

22.59 Wash 20 lks. wide course S. W.

29.74 Wash 5 lks. wide course S. W. and over rolling hilly land.

41.44 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

$\frac{1}{4}$ S10 in N. and

S15 in S. half;

1914 on S. rim; and raise a mound of stone 2 ft.

base 1 $\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

48.80 Wash 5 lks. wide course S. W.

56.40 Ridge bears N. E. and S. W. descend.

61.80 Wash 5 lks. wide course S. W. ascend.

66.35 Ridge bears N. E. and S. W. descend.

73.25 Wash 8 lks. wide course S. W. ascend.

78.40 Spur brs. SW. descend.

82.88 The reestab. cor. of secs. 10, 11, 14 and 15, hereinbefore

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains

described.  
Land, mountainous and hilly;  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak.  
December 30: At this cor. I set off 23° 10' S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is 34° 33½' N.

N. 0° 14' W. bet. secs. 9 and 10.  
Over huge granite boulders, through dense brush. Gradual descend along W. slope.

5.00  
11.00  
30.00  
45.00  
39.28  
41.08  
54.66  
57.18  
73.80  
82.17

Leave boulders.  
Wash 10 lks. wide course SW.; gradual ascent.  
Over huge granite boulders.  
Road, brs. E. and W.  
Wash 120 lks. wide course W.  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. ¼ sec. cor., marked on brass cap 1914 on S. rim;  
¼S9 in W. and  
S10 in E. half; from which  
An oak 4 ins. diam., bears N. 42° E. 57 lks. dist., marked ¼S10BT.  
An oak 4 ins. diam., bears S. 23° W. 18 lks. dist., marked ¼S9BT.  
Wash 5 lks. wide course W.  
Wash 5 lks. wide course W.  
Wash 20 lks. wide course S. W.  
The old cor. of secs. 3, 4, 9 and 10, hereinbefore described. I destroy all traces of the old cor. and re-establish it in the same place as follows:  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 3, 4, 9 and 10, marked on brass cap  
1914 on S. rim;  
T14NR4W in N. half;  
S4 in N. W.  
S3 in N. E.  
S10 in S. E. and  
S9 in S. W. quadrant; from which  
A cedar 8 ins. diam., bears N. 38¼° W. 181 lks. dist., marked T14NR4WS4BT.  
A cedar 10 ins. diam., bears S. 33¾° W. 14 lks. dist., marked T14NR4WS9BT.  
No other bearings available. Raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak.

December 30, 1914.

December 31, 1914: At 8H. 30m. a.m., l.m.t., I set off 34° 34½' N. on the lat. arc; 23° 06' S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 3, 4, 9 and 10  
Thence I run  
East bet. secs. 3 and 10.  
40.00 Make careful search but am unable to find any trace of the old ¼ sec. cor.  
81.98 Fall 67 lks. N. of the reestab. cor. of secs. 2, 3, 10 & 11 hereinbefore described.  
This falling gives the course of this line N. 89° 32' W.  
81.98 chs.  
Thence I run  
N. 89° 32' W. bet. secs. 3 and 10.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

- 8.00 Over rolling hilly land, through dense brush.  
Wash 15 lks. wide course S. W.
- 21.70 Wash 10 lks. wide course S. W.
- 40.99 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1914 on S. rim;  
 $\frac{1}{4}$ S3 in N. and  
S10 in S. half; from which  
A cedar 14 ins. diam., bears N.  $24\frac{1}{2}^{\circ}$  E. 172 lks. dist., marked  $\frac{1}{4}$ S3BT.  
A juniper 6 ins. diam., bears S.  $9^{\circ}$  E. 202 lks. dist., marked  $\frac{1}{4}$ S10BT.
- 64.53 Road bears N. and S.
- 73.00 Enter granite boulders, descend.
- 80.00 Wash 30 lks. wide course S. W.
- 81.98 The reestab. cor. of secs. 3, 4, 9, and 10, hereinbefore described.  
Land, mountainous and hilly;  
Soil, rocky; 4th. rate:  
No timber:  
Undergrowth, oak.  
December 31; At this cor. I set off  $23^{\circ} 06'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.
- 
- 40.00 North bet. secs. 3 and 4.  
Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.
- 77.65 Fall 23 lks. E. of the reestab. cor. of secs. 3, 4, 33 and 34 on the N. bdy. of the Tp. hereinbefore described. This falling gives the course of this line N.  $0^{\circ} 10'$  W.  
77.65 chs.  
Thence I run setting  $\frac{1}{4}$  sec. cor. at distance proportional to that given in the notes of the original survey.  
S.  $0^{\circ} 10'$  E. bet. secs. 3 and 4. rolling land, dense brush.
- 0.91 Road bears N. W. and S. E.
- 39.02 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1914 on S. rim;  
 $\frac{1}{4}$ S4 in W. and  
S3 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.
- 42.98 Wash 10 lks. wide course S. E.
- 45.65 Over broken land, covered with huge granite boulders.
- 68.60 Wash 10 lks. wide course E.
- 77.65 The reestab. cor. of secs. 3, 4, 9 and 10, hereinbefore described.  
Land, rolling and mountainous.  
Soil,  $S\frac{1}{2}$  mile rocky; 4th. rate. N.  $\frac{1}{2}$  mile, decomposed granite mixed with loam, dry, medium texture; 1st. rate.  
Timber, a very few scattered cedars.  
Undergrowth, oak and manzanita.
- December 31, 1914.
- 
- January 15, 1915: At 8h. 00m. a.m.; l.m.t., I set off  $34^{\circ} 30\frac{1}{2}'$  N. on the lat. arc:  $21^{\circ} 11\frac{1}{2}'$  S. on the decl arc; and determine a meridian with the solar at pt. for old  $\frac{1}{4}$  sec. cor. bet. secs. 32 and 33. The position of this  $\frac{1}{4}$  sec. cor. is pointed out to me by W. M. Cooper an old settler.  
I find a granite stone in place 4 x 3 x 1 ft. above ground with faint chisel marks on top, but marks are illegible  
I re-mark stone with a x for exact point for  $\frac{1}{4}$  sec. cor. with  $\frac{1}{4}$  W. of cross. and  $1\frac{1}{2}$  lks. S. of cross  
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the

part of  
Resurvey of the Subdivision lines of Township 14 N., R. 4 W. 31.  
Chains.

ground for witness cor. to  $\frac{1}{4}$  sec. cor., marked on brass cap, 1914 on S. rim, W C  $\frac{1}{4}$  in N. half; S 33 in SE., and S 32 in SW. quadrant; from which, An oak, 3 ins. in diam., brs. S. 87° E., 18 lks. dist., marked W C  $\frac{1}{4}$  S 33 B T. An oak, 14 ins. diam., brs. S. 10° W., 42 lks. dist., marked W C  $\frac{1}{4}$  S 32 B T.

I commence at the true point for  $\frac{1}{4}$  sec. cor., bet. secs. 32 and 33, from which school house brs. N. 86° 50' E., 568 lks.

Thence I run, North, bet. secs. 32 and 33, making careful search at 40.00 and 80.00 chs., for the old  $\frac{1}{4}$  sec. and sec. cors., but without success; until at

283.84 Fall 10.24 chs. E. of the old cor. of secs. 8, 9, 16 and 17, hereinbefore described.

This falling gives the course of this line N. 2° 04' W., 284.03 chs.

Thence I run, S. 2° 04' E., setting temp. cors. at distances proportional to those given in the notes of the original survey.

- 40.57  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.
- 81.15 Set temp. cor. of secs. 16, 17, 20 and 21.
- 121.72  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.
- 162.30 Set temp. cor. of secs. 20, 21, 28 and 29.
- 202.87  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.
- 243.45 Set temp. cor. of secs. 28, 29, 32 and 33.
- 284.03 The true point for  $\frac{1}{4}$  sec. cor., bet. secs. 32 and 33.

January 15, 1915.

December 19, 1914. At 8h.00m., a.m., l.m.t., I set off 34° 31' N. on the lat. arc; 23° 20' S. on the decl. arc; and determine a meridian with the solar at the old  $\frac{1}{4}$  sec. cor., bet. secs. 28 and 33, hereinbefore described.

Thence I run, West, making careful search at 40.00 and 80.00 chs. for the old sec. and  $\frac{1}{4}$  sec. cors., but without success until at

123.17 Fall 189 lks. N. of the old cor. of secs. 29, 30, 31 and 32, which is a stone, marked and witnessed as described by the Surveyor General, set firmly in the ground.

This falling gives the course of this line S. 89° 07' W., 123.19 chs.

Thence I run, N. 89° 07' E., setting temp. cors. at distances proportional to those given in the notes of the original survey.

- 41.10  $\frac{1}{2}$  Set temp.  $\frac{1}{4}$  sec. cor.
- 82.21 Set temp. cor. of secs. 28, 29, 32 and 33.
- 123.19 The old  $\frac{1}{4}$  sec. cor., bet. secs. 28 and 33, hereinbefore described.

December 19, 1914.

December 2, 1914: At 8h.00m. a.m., l.m.t., I set off 34° 32' N. on the lat. arc; 21° 50' S. on the decl. arc; and determine a meridian with the solar at the old cor. of secs. 21, 22, 27 and 28, hereinbefore described.

Thence I run, West, making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors. but without success; until at

159.40 Fall 2.50 chs. N. of the old cor. of secs. 19, 20, 29 and 30, the position of which I reestablish from the old bearing tree, which has died, but upon which the scribe marks are still visible but illegible.

part of the  
32. Resurvey of Subdivision lines of Township 14 N., R. 4 W.  
Chains.

From this old bearing tree, I run N. 89° W., 20 lks., and set point for old cor. of secs. 19, 20, 29 and 30. The falling gives the course of this line S. 89° 06' W., 159.42 chs.  
From the point for old cor. of secs. 19, 20, 29 and 30, I run, N. 89° 06' E., setting temp. cors. at distances proportional to those given in the notes of the original survey.  
39.85 Set temp.  $\frac{1}{4}$  sec. cor.  
79.71 Set temp. cor. of secs. 20, 21, 28 and 29.  
119.56 Set temp.  $\frac{1}{4}$  sec. cor.  
159.42 The old corner of sections 21, 22, 27 and 28, hereinbefore described.

December 2, 1914.

December 18, 1914.  
I commence at the old corner of secs. 15, 16, 21 and 22, hereinbefore described.  
Thence I run, West, making careful search at 40.00 and 80.00 chs. for the old  $\frac{1}{4}$  sec. and sec. cors., but without success; until at 157.85 Fall 140 lks. S. of the old cor. of secs. 17, 18, 19 and 20, which is a stone, firmly set in the ground, marked and witnessed as described by the Surveyor General. This falling gives the course of this line N. 89° 29' W., 157.86 chs.  
Thence I run, S. 89° 29' E., setting temp. cors. at distances proportional to those given in the notes of the original survey.  
39.42 Set temp.  $\frac{1}{4}$  sec. cor.  
78.84 Set temp. cor. of secs. 16, 17, 20 and 21.  
118.26 Set temp.  $\frac{1}{4}$  sec. cor.  
157.86 The old corner of sections 15, 16, 21 and 22, hereinbefore described.

December 18, 1914.

January 16, 1915:  
At 8h.00m. a.m., l.m.t., I set off 34° 31' N. on the lat. arc; 21° 00 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the temp. cor. of secs. 28, 29, 32 and 33, on the north and south line. Thence I run, 2.91 chs. west, and from the temp. cor. of secs. 28, 29, 32 and 33 on the E. and W. line, I run, 1.55 chs. N. to point of intersection of the two lines, where I set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for reestablished cor. of secs. 28, 29, 32 and 33, marked on brass cap,  
1915 in S. rim;  
T 14 N R 4 W in N. half;  
S 29 in NW.,  
S 28 in NE.,  
S 33 in SE., and  
S 32 in SW. quadrant;  
dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.  
Thence I run, S. 6° 11' E., bet. secs. 32 and 33. Over level land.  
5.81 Cross road brs. E. and W.

Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

10.38 Fence bears E. and W. and ascend over huge granite boulders.  
 15.00 Along rough E. slope of granite ridge.  
 40.79 True point for  $\frac{1}{4}$  sec. cor. also cor. No. 2 of Tract No. 37 on N. bdy. of Tract. hereinbefore described. Land, mountainous and level. Soil, rocky; 4th. rate. Except N. 5.81 chs. which is decomposed granite mixed with loam, dry, medium texture; 1st. rate. Timber, a few scattering oaks, and cedars. Undergrowth, oak.

S. 88° 43' E. bet. secs. 28 and 33.  
 Over level land,  
 7.25 Enter dense brush, descend.  
 16.20 Road bears N. and S.  
 17.40 Wash 40 lks. wide course S.  
 18.14 Road bears N. and S.  
 19.75 Wash 20 lks. wide course S. W.  
 20.42 Fence bears N. and S. ascend.  
 33.00 Wash 10 lks. wide course S.  
 35.00 Top of ascent and over rolling hilly land.  
 40.99 The old  $\frac{1}{4}$  sec. cor., hereinbefore described. I destroy all traces of the old  $\frac{1}{4}$  sec. cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 1 in. diam., .26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1914 on S. rim;  
 $\frac{1}{4}$ S28 in N. and  
 S33 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of post. Pits impracticable.  
 January 16, 1915.  
 December 21, 1914:  
 Thence from  $\frac{1}{4}$  sec. cor. I run  
 N. 88° 11' E. along fence.  
 22.03 Fence bears NE and SW. and leave E. and W. fence.  
 22.31 Road bears NE. and SW..  
 22.71 S. F. P. and P. Ry. N. E. and S. W.  
 23.75 Telegraph line bears N. E. and S. W.  
 25.25 Road bears N. and S.  
 29.30 Spur brs. SW.  
 38.30 Wash 40 lks. wide course S. W.  
 39.99 The reestablished cor. of secs. 27, 28, 33 and 34, hereinbefore described.  
 Land, rolling and hilly.  
 Soil, decomposed granite mixed with loam, dry, medium texture; 1st. rate.  
 No timber.  
 Undergrowth, oak.

December 21, 1914.

From the temp. cor. of secs. 20, 21, 28 and 29 on the N. and S. line I run 300 lks. W., and from the temp. cor. of secs. 20, 21, 28 and 29 on the E. and W. line I run 32 lks. S. to point of intersection of the two lines, where I  
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 20, 21, 28 and 29, marked on brass cap  
 1915 on S. rim;  
 T14NR4W in N. half;  
 S20 in N. W.  
 S21 in N. E.  
 S28 in S. E. and  
 S29 in S. W. quadrant; dig pits 18 x 18 x 12 ins.

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.  
Thence I run  
S.  $2^{\circ}08'$  E. bet. secs. 28 and 29.  
Over rolling hilly land, through dense brush.  
14.26 Road bears N. W. and S. E.  
40.58 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 $\frac{1}{4}$ S29 in W. and  
S28 in E. half;  
1915 on S. rim; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
52.25 Fence bears E. and W.  
58.17 Road bears N. E. and S. W.  
62.00 Fence bears N. E. and S. W.  
72.37 Wash 5 lks. wide course S. E. leave brush.  
81.16 The reestab. cor. of secs. 28, 29, 32 and 33, hereinbefore described.  
Land, rolling and hilly.  
Soil, decomposed granite; 2nd. rate.  
No timber.  
Undergrowth, oak.

January 16, 1915.

January 18, 1915, At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}32'$  N. on the lat. arc;  $20^{\circ}37'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
Thence I run  
N.  $88^{\circ}52'$  E. bet. secs. 21 and 28.  
Over rolling hilly land.  
1.00 Through dense brush.  
15.50 Wash 5 lks. wide course S.  
23.59 Wash 5 lks. wide course S.  
34.90 Wash 25 lks. wide course S.  
39.85 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
1914 on S. rim;  
 $\frac{1}{4}$ S21 in N. and  
S28 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
45.00 Ridge bears N. and S.  
50.00 Descend.  
61.60 Wash 10 lks. wide course S.  
64.27 Ridge bears N. and S.  
67.41 Wash 10 lks. wide course S.  
75.40 Wash 10 lks. wide course S.  
79.71 The reestab. cor. of secs. 21, 22, 27 and 28, hereinbefore described.  
Land, rolling hills.  
Soil, decomposed granite; 2nd. rate.  
No timber.  
Undergrowth, oak.

January 18: At the temp. cor. of secs. 16, 17, 20 and 21 on the N. and S. line, I set off  $20^{\circ}37'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ}32\frac{1}{2}''$  N.  
Thence I run 74 lks. W., and from the temp. cor. of secs. 16, 17, 20 and 21 on the E. and W. line I run 2.54 chs. S. to point of intersection of the two lines, Where I Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for reestab. cor. of secs. 16, 17, 20 and 21, marked on brass cap  
1915 on S. rim;  
T14NR4W in N. half;

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Chains.

S17 in N. W.  
 S16 in N. E.  
 S21 in S. E. and  
 S20 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.  
 Thence I run  
 S. 0° 28' E. bet. secs. 20 and 21.  
 Over rolling hilly land, through dense brush.  
 27.10 Road bears N. E. and S. W.  
 33.10 Wash 80 lks. wide course S. W.  
 40.55 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. ¼ sec. cor., marked on brass cap 1915 on S. rim;  
 ¼S20 in W. and  
 S21 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.  
 66.65 Leave brush.  
 81.10 The reestab. cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
 Land, rolling hills.  
 Soil, decomposed granite, 2nd. rate.  
 No timber.  
 Undergrowth, oak.

N. 88° 40' E. bet. secs. 16 and 21.  
 Over rolling hilly land, through dense brush.  
 16.33 Road bears N. E. and S. W.  
 26.15 Wash 100 lks. wide course S. W.  
 34.91 House bears N. 14° 07' E.  
 39.52 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. ¼ sec. cor., marked on brass cap 1915 on S. rim;  
 ¼S16 in N. Half;  
 S21 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.  
 45.27 House bears N. 0° 43' W.  
 79.04 The reestab. cor. of secs. 15, 16, 21 and 22, hereinbefore described.  
 Land, rolling and hilly.  
 Soil, decomposed granite; 2nd. rate.  
 No timber.  
 Undergrowth, oak.

January 18, 1915.

January 19, 1915:  
 From the reestab. cor. of secs. 16, 17, 20 and 21, hereinbefore described.  
 I run  
 N. 1° 32' W. bet. secs. 16 and 17  
 Over rolling hilly land.  
 28.75 Wash 5 lks. wide course S. W.  
 31.02 Road bears N. E. and S. W.  
 40.56½ Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab. ¼ sec. cor., marked on brass cap 1915 on S. rim;  
 ¼S17 in W. and  
 S16 in E. half; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft/ dist. and raise a mound of earth 3½ ft. base 1½ ft. high, W. of cor.  
 81.13 The old cor. of secs. 8, 9, 16 and 17 hereinbefore described. I destroy all traces of the old cor. and re-establish it in the same place as follows;

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Chains.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked on brass cap

1915 on S. rim;

T14NR4W in N. half;

S8 in N. W.

S9 in N. E.

S16 in S. E. and

S17 in S. W. quadrant; dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, W. of cor..

Land, rolling and hilly.

Soil, decomposed granite; 2nd. rate.

No timber.

Undergrowth, oak.

January 19, 1915.

December 30, 1914; S.

N.  $88^{\circ} 09'$  E. bet. secs. 9 and 16.

Over rolling hilly land.

8.68 Wash 25 lks. wide course S. E.

10.77 Road bears N. W. and S. E.

23.00 Wash 10 lks. wide course S. W.

29.90 Wash 15 lks. wide course S. W.

41.38 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

.1914 on S. rim;

$\frac{1}{4}$ S9 in N. and

S16 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.

70.40 Wash 80 lks. wide course S. W.

71.40 Road bears N. and S.

77.70 Ascend over granite boulders.

82.77 The reestab. cor. of secs. 9, 10, 15 and 16, hereinbefore described.

Land, rolling hills.

Soil, decomposed granite, 2nd. rate; except E. 5.07 chs. which is granite boulders.

Timber, none.

Oak undergrowth.

December 30, 1914.

January 12, 1915: at 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 42'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 8, 9, 16 and 17, hereinbefore described.

Thence I run

North bet. secs. 8 and 9.

40.39 Fall 14 lks. E. of the old  $\frac{1}{4}$  sec. cor., a post 18 ins. long 3 ins. square, marked as described by the surveyor general, lying on ground with traces of pits and mound of earth.

This falling gives the course of this line N.  $0^{\circ} 12'$  W. 40.39 chs.

I return to the reestab. cor. of secs. 8, 9, 16 and 17

Thence I run

N.  $0^{\circ} 12'$  W. bet. secs. 8 and 9

Over rolling hilly land, through dense brush.

40.39 The old  $\frac{1}{4}$  sec. cor. hereinbefore described. I destroy all traces of the old  $\frac{1}{4}$  sec. cor., and re-establish it in the same place as follows:

Set an iron post 3 ft. long, 1 in. diam., 26 ins in the

part of Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

chains. ground for  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S8 in W. and  
 S9 in E. half; dig pits 18' x 18' x 12 ins. N. and  
 S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$   
 ft. base  $1\frac{1}{2}$  ft. high, W. of cor.  
 Thence from Reestab.  $\frac{1}{4}$  sec. cor. I run  
 North  
 41.32 Fall 5 lks. E. of old cor. of secs. 4, 5, 8 and 9, which  
 is a stone marked and witnessed as described by the  
 surveyor general, firmly set in the ground.  
 This falling gives the course of this line N.  $0^{\circ} 04'$  W.  
 41.32 chs.  
 I return to the reestab.  $\frac{1}{4}$  sec. cor., bet. secs. 8 and 9  
 Thence I run  
 N.  $0^{\circ} 04'$  W.  
 1.32 Ridge bears N. E. and S. W.  
 16.32 Road bears N. W. and S. E.  
 24.82 Fence bears E. and W. (hereinbefore described.  
 41.32 The old cor. of secs. 4, 5, 8 and 9, I destroy all traces  
 of the old cor. and re-establish it in the same place as  
 follows:  
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor. of secs. 4, 5, 8 and 9, marked on  
 brass cap  
 1915 on S. rim;  
 T14NR4W in N. half;  
 S5 in N. W.  
 S4 in N. E.  
 S9 in S. E. and  
 S8 in S. W. quadrant; and raise a mound of stone 2  
 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Land, rolling hills.  
 Soil, decomposed granite; 2nd. rate.  
 No timber.  
 Undergrowth, oak.  
 January 12: At this cor. I set off  $21^{\circ} 41\frac{1}{2}'$  S. on the  
 decl. arc; and observe the sun on the meridian at noon  
 the resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.  
 January 12, 1915.

January 11, 1915: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $34\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 50\frac{1}{2}'$  S. on the decl. arc;  
 and determine a meridian with the solar at the reestab.  
 cor. of secs. 3, 4, 9 and 10, hereinbefore described  
 Thence I run West, bet. secs. 4 and 9.  
 40.00 Find no trace of old  $\frac{1}{4}$  sec. cor. of secs. 4, 5, 8 and 9.  
 82.57 Fall 3.05 chs. N. of the old corner of secs. 4, 5, 8  
 and 9, hereinbefore described.  
 This falling gives the course of this line N.  $87^{\circ} 53'$  E.  
 82.63 chs.  
 From the old corner of secs. 4, 5, 8 and 9, I run  
 N.  $87^{\circ} 53'$  E. bet. secs. 4 and 9.  
 Ascend through dense brush, over granite boulders.  
 20.93 Granite ridge bears N. W. and S. E., desc. over granite  
 boulders.  
 41.31 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S4 in N. and  
 S9 in S. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 66.75 Wash 10 lks. wide course S.  
 69.02 Wash 10 lks. wide course S.  
 71.75 descend.  
 82.63 The reestab. cor. of secs. 3, 4, 9 and 10, hereinbefore  
 described.  
 Land, mountainous.

part of

38 Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

Soil, rocky; 4th. rate.  
 Timber, a few scattering cedars.  
 Undergrowth, oak.

January 11: At the ~~old~~ corner of secs. 4, 5, 8 and 9, hereinbefore described, I set off  $21^{\circ} 51\frac{1}{2}'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 34\frac{1}{2}'$  N.

Thence I run

North bet. secs. 4 and 5.

40.81 Fall 90 lks. W. of the old  $\frac{1}{4}$  sec. cor., which is a stone firmly set in the ground, marked and witnessed as described by the surveyor general.

This falling gives the course of this line N.  $1^{\circ} 16'$  E:  
 40.81 chs.

I return to the cor. of secs. 4, 5, 8 and 9,

Thence I run

N.  $1^{\circ} 16'$  E. bet. secs. 4 and 5.

Along rough W. slope, through dense brush.

3.06 Spur, Brs. W.

24.05 Fence bears N. E. and S. W.

26.29 J. Davis house bears S.  $34^{\circ} 19'$  W.

32.78 Wash 15 lks. wide course W. ascend.

35.26 Spur, Brs. W. descend.

40.81 The old  $\frac{1}{4}$  sec. cor., hereinbefore described. I destroy all traces of the old  $\frac{1}{4}$  sec. cor.; and re-establish it in the same place as follows:

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;

 $\frac{1}{4}$ S5 in W. and

S4 in E. half; and raise a mound of stone 2 ft. in

base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.Thence from reestab.  $\frac{1}{4}$  sec. cor.

North

41.24 Fall 72 lks. E. of the reestab. cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the Tp. hereinbefore described.

This falling gives the course of this line N.  $1^{\circ} 00'$  W.  
 41.25 chs.

I return to the reestab.  $\frac{1}{4}$  sec. cor.

Thence I run

N.  $1^{\circ} 00'$  W.

6.25 Over level land.

7.15 Wash 200 lks. wide course W.

9.75 Road bears N. E. and S. W. Ascend steep S. slope through dense brush.

37.00 Ridge bears N. E. and S. W. descend.

41.25 The reestab. cor. of secs. 4, 5, 32 and 33 on the N. bdy. of the Tp. hereinbefore described.

Land, mountainous.

Soil, rocky; 4th. rate.

No timber.

Undergrowth, oak.

January 11, 1915.

January 5, 1915: At 8h. 30m. a.m.; l.m.t., I set off  $34^{\circ} 31'$  N. on the lat. arc;  $22^{\circ} 38\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the old cor. of secs. 29, 30, 31 and 32, hereinbefore described. I destroy all traces of the old cor. and re-establish it in the same place as follows;

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, marked on brass cap

1915 on S. rim;

part of

Resurvey of the subdivision lines of Tp. 14 N. R. 4 W.

chains.

T14NR4W in N. half;  
 S30 on N. W.  
 S29 in N. E.  
 S32 in S. E. and  
 S31 in S. W. quadrant; from which  
 A cedar 30 ins. diam., bears N.  $46\frac{1}{2}^{\circ}$  E. 69 lks.  
 dist., marked T14NR4WS29BT.  
 No other bearings available. Raise a mound of stone  
 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Thence I run  
 South bet. secs. 31 and 32.  
 40.00 Make careful search but am unable to find any trace of  
 the old  $\frac{1}{4}$  sec. cor.  
 80.69 Fall 1.92 lks. W. of the reestab. cor. of secs. 5, 6, 31  
 and 32 on the S. bdy. of the Tp. hereinbefore described.  
 This falling gives the course of this line N.  $1^{\circ} 22'$  W.  
 80.70 chs.  
 Thence I run  
 N.  $1^{\circ} 22'$  W. bet. secs. 31 and 32.  
 Ascend steep rocky S. W. slope through dense brush.  
 30.00 Ridge bears N. W. and S. E. and descend gradually along  
 on E. side of ridge.  
 40.35 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S31 in W. and  
 S32 in E. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 48.00 Leave brush.  
 73.00 Enter dense brush.  
 80.35 Wash 10 lks. wide course N. E.  
 80.70 The reestab. cor. of secs. 29, 30, 31 and 32, hereinbefore  
 described.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak.  
 January 5; At this cor. I set off  $22^{\circ} 39'$  S. on the decl.  
 arc; and observe the sun on the meridian at noon; the  
 resulting lat. is  $34^{\circ} 31'$  N.  
 January 5, 1915.

January 16, 1915.  
 From the reestab. cor. of secs. 29, 30, 31 and 32, hereinbefore  
 described, I run  
 N.  $88^{\circ} 02'$  E. bet. secs. 29 and 32.  
 Descend through dense brush.  
 0.75 Wash 10 lks. wide course N. E. ascend.  
 4.00 Spur brs. N.; & descend gradually.  
 34.24 Descend steep E. slope.  
 41.12 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S29 in N. and  
 S32 in S. half; and raise a mound of stone 2 ft.  
 base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 50.62 Fence bears N. and S.  
 58.60 Wash 60 lks. wide course S. descend.  
 64.33 Fence bears N. W. and S. E.  
 64.45 Road bears N. W. and S. E. and ascend steeply.  
 67.82 Spur brs. S.W.; and descend.  
 67.97 The N. E. cor. of J. V. Dickson house bears S.  $44^{\circ} 50'$  W.  
 8.16 chs.  
 74.09 Ascend through scattering timber and brush, over huge  
 granite boulders.  
 76.24 Granite ridge bears N. and S. descend.  
 77.00 Over level land, leave brush and timber.  
 79.46 Road bears N. and S.  
 79.76 Fence Bears N. and S.  
 82.24 The reestab. cor. of secs. 28, 29, 32 and 33, hereinbefore

part of Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

described.  
Land, mountainous.  
Soil, rocky; 4th. rate; except from 58.60 to 64.45 and 77.00 to 82.24 which is decomposed granite mixed with loam, dry, medium texture; 1st. rate.  
Timber, pinon and cedar.  
Undergrowth, oak.

January 16, 1915.

December 19, 1914.  
From the old cor. of secs. 29, 30, 31 and 32 I run West bet. secs. 30 and 31.  
40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
80.86 Fall 75 lks. S. of the reestab. cor. of secs. 30 and 31 on the W. bdy. of the Tphereinbefore described. This falling gives the course of this line N. 89° 28' W. 80.86 chs. Dec. 19, 1914.

January 5, 1915.  
From the reestab. cor. of secs. 29, 30, 31 and 31, hereinafore described I run N. 89° 28' W. bet. secs. 30 and 31, setting  $\frac{1}{4}$  sec. cor. at distance proportional to that given in the notes of the original survey.

- 8.00 Ascend steep E. slope through dense brush. Ridge bears N. W. and S. E. descend.
- 29.00 Wash 10 lks. wide course N. W. ascend.
- 38.00 Ridge bears N. and S. descend.
- 40.53 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  $\frac{1}{4}$ S30 in N. and S31 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.
- 46.40 Wash 10 lks. wide course N. W.
- 49.70 Wash 10 lks. wide course N. ascend.
- 77.00 Ridge bears N. and S. descend.
- 79.90 Wash 20 lks. wide course N. ascend.
- 80.86 The reestab. cor. of secs. 25, 30, 31 and 36 on the W. bdy. of the Tphereinbefore described.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak.

January 5, 1915.

January 6, 1915; At 8h. 00m. a.m., l.m.t., I set off 34° 32' N. on the lat. arc; 22° 31' S. on the decl. arc; and determine a meridian with the solar at the point for old cor. of secs. 19, 20, 29 and 30, hereinafore described.  
I re-establish this cor. in its original position as follows:  
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, marked on brass cap  
1915 on S. rim;  
T14NR4W in N. half;  
S19 in N. W.  
S20 in N. E.  
S29 in S. E. and  
S30 in S. W. quadrant; from which  
a cross (x) on a huge granite boulder bears N. 19° E. 66 lks. dist.; marked B0 S20

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains.

No other bearings available. Raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Thence I run  
 South bet. secs. 29 and 30.  
 40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
 83.00 Fall 58 lks. W. of the reestab. cor. of secs. 29, 30, 31 and 32, hereinbefore described.  
 This falling gives the course of this line N.  $0^{\circ} 24'$  W. 83.00 chs.  
 Thence I run  
 N.  $0^{\circ} 24'$  W. bet. secs. 29 and 30.  
 Along E. slope gradually ascending through dense brush.  
 10.70 Ridge bears E. and W. descend.  
 30.45 Wash 25 lks. wide course E. ascend.  
 41.50 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  
 $\frac{1}{4}$ S30 in W. and  
 S29 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 48.75 Fence bears N. E. and S. W.  
 49.70 Ridge bears N. E. and S. W. descend.  
 52.40 Creek, 15 lks. wide. Course E. Clear water 2 ins. deep. Ascend.  
 79.20 Wash 10 lks. wide course E. and ascend over granite boulders.  
 83.00 The reestab. cor. of secs. 19, 20, 29 and 30, hereinbefore described.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 Timber, a few scattering cedars.  
 Undergrowth, oak and manzanita.  
 January 6; At this cor. I set off  $22^{\circ} 32'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32'$  N.  
 January 6, 1915.

January 16, 1915;  
 From the reestab. cor. of secs. 19, 20, 29 and 30 hereinbefore described, I run,  
 Thence I run  
 N.  $89^{\circ} 20'$  E. bet. secs. 20 and 29.  
 Descend over granite boulders through dense brush.  
 29.00 Creek 15 lks. wide course S. W. Clear water 3 ins. deep. ascend.  
 31.15 Fence bears N. W. and S. E.  
 39.85 $\frac{1}{2}$  Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  
 $\frac{1}{4}$ S20 in N. and  
 S29 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 From which  
 A juniper 20 ins. diam., bears N.  $2\frac{1}{2}^{\circ}$  E. 99 lks. dist., marked  $\frac{1}{4}$ S20BT.  
 44.69 Wash 8 lks. wide course N. W. Leave brush and over rolling land, gradual ascent.  
 67.84 Fence bears N. and S.  
 70.20 Road bears N. W. and S. E.  
 71.21 Road bears N. and S.  
 79.71 The reestab. cor. of secs. 20, 21, 28 and 29, hereinbefore described.  
 Land, mountainous, and rolling.  
 Soil, W. 44.69 chs. rocky; 4th. rate. E. 35.02 chs. decomposed granite; 2nd. rate.  
 No timber.  
 Undergrowth, oak and manzanita.  
 January 16, 1915.

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Chains. December 2, 1914.  
 I commence at the point for old cor. of secs. 19, 20, 29 and 30, hereinbefore described.  
 Thence I run  
 west bet. secs. 19 and 30  
 40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
 81.96 Fall 1.31 chs. S. of the old cor. of secs. 19, 24, 25 and 30, hereinbefore described.  
 This falling gives the course of this line N. 89° 05' W. 81.97 chs. Dec. 2, 1914.  
 January 6, 1915.  
 From the reestab. cor. of secs. 19, 20, 29 and 30, hereinbefore described, I run  
 N. 89° 05' W. bet. secs. 19 and 30.  
 Ascend gradually through dense brush.  
 26.40 Wash 10 lks. wide course N. E.  
 29.20 Wash 20 lks. wide course N. E.  
 40.93 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1914 on S. rim;  $\frac{1}{4}$ S19 in N. and S30 in S. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
 41.50 Fence bears N. E. and S. W.  
 56.20 Ridge bears N. and S. descend.  
 66.60 Wash 30 lks. wide course N. ascend.  
 81.97 The reestab. cor. of secs. 19, 20, 29 and 30 on the W. bdy. of the Tp. hereinbefore described.  
 Land, mountainous.  
 Soil, rocky; 4th. rate.  
 No timber.  
 Undergrowth, oak and manzanita.

January 6, 1915.

January 7, 1915: At 8h. 30m. a.m., l.m.t., I set off 34° 32' N. on the lat. arc; 22° 24 $\frac{1}{2}$ ' S. on the decl. arc; and determine a meridian with the solar at the old cor. of secs. 17, 18, 19 and 20, hereinbefore described.  
 I destroy all traces of the old cor. and re-establish it in the same place as follows:  
 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked on brass cap  
 1915 on S. rim;  
 T14NR4W in N. half;  
 S18 in N. W.  
 S17 in N. E.  
 S20 in S. E. and  
 S19 in S. W. quadrant; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
 Thence I run  
 South bet. secs. 19 and 20.  
 40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
 85.18 Fall 35 lks. E. of the reestab. cor. of secs. 19, 20, 29 and 30, hereinbefore described.  
 This falling gives the course of the line N. 0° 14' E. 85.18 chs.  
 Thence I run  
 N. 0° 14' E. bet. secs. 19 and 20.  
 Over granite boulders, through dense brush, gradually descending.  
 42.59 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  $\frac{1}{4}$ S19 in W. and

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Chains.

S20 in E. half; and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high; W. of cor. Pits impracticable.

47.00 Leave granite boulders and across level land.

54.80 Through dense willows;

55.60 Creek 35 lks. wide course S. E. Clear water 3 ins. deep.

60.00 Leave willows.

60.15 Fence bears N. W. and S. E. and ascend through dense brush

78.53 Fence bears E. and W.

85.18 The reestab. cor. of secs. 17, 18, 19 and 20, hereinbefore described.

Land, mountainous and level.  
Soil, rocky; 4th. rate.  
Timber, a few scattering pinons and cedars.  
Undergrowth, oak, manzanita and willows.

January 7: At this cor. I set off  $22^{\circ} 25'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 32\frac{1}{2}'$  N.

January 7, 1915.

January 18, 1915: From the reestab. cor. of secs. 17, 18, 19 and 20, hereinbefore described I run S.  $87^{\circ} 40'$  E. bet. secs. 17 and 20

Descend through dense brush.

8.00 Wash 10 lks. wide course S. ascend.

9.41 Road bears N. and S.

12.40 Ridge bears N. and S. descend.

22.30 Wash 20 lks. wide course S. W. ascend.

24.00 Road bears N. and S.

33.00 Over rolling hilly land.

39.45 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;  
 $\frac{1}{4}$ S17 in N. and  
S20 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.

61.70 Wash 5 lks. wide course S.

65.78 Road bears N. E. and S. W.

66.60 Wash 20 lks. wide course S. W.

78.90 The reestablished cor. of secs. 16, 17, 20 and 21., hereinbefore described.

Land, hilly and mountainous.  
Soil, W. 33.00 chs. rocky; 4th. rate; E. 45.00 chs. decomposed granite; 2nd. rate.  
No timber.  
Undergrowth, oak and manzanita.

January 18, 1915.

January 7, 1915.

From the reestab. cor. of secs. 17, 18, 19 and 20, hereinbefore described I run

West bet. secs. 18 and 19.

40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.

83.72 Fall 54 lks. N. of the reestab. cor. of secs. 18, and 19, on the W. bdy. of the Tp. hereinbefore described. This falling gives the course of this line S.  $89^{\circ} 38'$  W. 83.72 chs.

From the reestab. cor. of secs. 17, 18, 19 and 20, hereinbefore described I run

S.  $89^{\circ} 38'$  W. bet. secs. 18 and 19.

Over rolling hills, through dense brush, ascending.

14.02 Over huge granite boulders.

25.72 Descend steep W. slope.

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Chains.  
 36.10 Over level land, leave brush.  
 39.59 Creek 6 lks. wide course S. E. Clear water 5 ins. deep.  
 41.86 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
 1915 on S. rim;  
 $\frac{1}{4}$ S18 in N. and  
 S19 in S. half; dig pits 18 x 18 x 12 ins. E. and  
 W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$   
 ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 44.27 Fence bears N. E. and S. W. ascend over rolling hills,  
 through dense brush.  
 49.20 Wash 100 lks. wide course S. E.  
 53.52 Fence bears N. W. and S. E.  
 58.47 Wash 20 lks. wide course N. E.  
 83.72 The reestab. cor. of secs. 18 & 19 on Wobby of <sup>Tr.</sup> hereinbefore  
 described.  
 Land, mountainous, hilly and level.  
 Soil, Rocky; 4th. rate; except from 36.10 to 44.27 chs.  
 which is decomposed granite; 2nd. rate.  
 Timber, a few scattering cedars.  
 Undergrowth, oak and manzanita.

January 7, 1915.

January 8, 1915: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $33\frac{1}{2}'$  N. on the lat. arc;  $22^{\circ} 16\frac{1}{2}'$  S. on the decl. arc;  
 and determine a meridian with the solar at the old cor.  
 of secs. 7, 8, 17 and 18, which is the remains of post  
 badly rotted in a small mound of stones. I destroy  
 all traces of the old cor. and re-establish it in the  
 same place as follows:

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor. of secs. 7, 8, 17 and 18, marked on  
 brass cap

1915 on S. rim;  
 T14NR4W in N. half;  
 S7 in N. W.  
 S8 in N. E.  
 S17 in S. E. and

S18 in S. W. quadrant; dig pits 18 x 18 x 12 ins.  
 in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth  
 4 ft. base 2 ft. high, W. of cor.

Thence I run

South bet. secs. 17 and 18.

40.00 Make careful search but am unable to find any trace of the  
 old  $\frac{1}{4}$  sec. cor.

79.50 Fall 93 lks. W. of the reestab. cor. of secs. 17, 18, 19  
 and 20 hereinbefore described.

This falling gives the course of this line N.  $0^{\circ} 40'$  W.  
 79.50 chs.

Thence I run

N.  $0^{\circ} 40'$  W. bet. secs. 17 and 18.

Over rolling hilly land, through dense brush.

4.75 Wash 15 lks. wide course E.

31.40 Road bears N. W. and S. E.

39.75 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;  
 $\frac{1}{4}$ S18 in W. and

S17 in E. half; dig pits 18 x 18 x 12 ins. N. and  
 S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$   
 ft. base  $1\frac{1}{2}$  ft. high, W. of cor.

42.53 Road bears N. E. and S. W.

79.50 The reestab. cor. of secs. 7, 8, 17 and 18, hereinbefore  
 described.

Land, rolling hills.

Soil, decomposed granite; 2nd. rate.

No timber.

Undergrowth, oak.

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W. 35 45

Chains.

January 8: At this cor. I set off  $22^{\circ} 17\frac{1}{2}'$  S. on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is  $34^{\circ} 33\frac{1}{2}'$  N.

January 8, 1915.

December 29, 1914,  
From the old cor. of secs. 8, 9, 16 and 17, hereinbefore described I run

West bet. secs. 8 and 17.  
40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
77.63 Fall 151 lks. S. of the old cor. of secs. 7, 8, 17 and 18 hereinbefore described.  
This falling gives the course of this line S.  $88^{\circ} 53'$  E. 77.64 chs. Dec. 29, 1914.

January 12, 1915; At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 33\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 41\frac{1}{2}'$  S. on the decl. arc; and determine a meridian with the solar at the reestab. cor. of secs. 7, 8, 17 and 18 hereinbefore described.

Thence I run S.  $88^{\circ} 53'$  E. bet. secs. 8 and 17. Over rolling hilly land, through dense brush.  
17.90 Road bears N. and S.  
38.82 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  $\frac{1}{4}$ S8 in N. and S17 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor.

67.90 Wash 10 lks. wide course S. E.  
77.64 The reestab. cor. of secs. 8, 9, 16 and 17 hereinbefore described.  
Land, rolling hills.  
Soil, decomposed granite, 2nd. rate.  
No timber.  
Undergrowth, oak.

January 12, 1915.

July 16, 1915:  
From the reestab. cor. of secs. 7 & 18 on W. bdy. of Tp. hereinbefore described, I run

East bet. secs. 7 and 18.  
40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
83.91 Fall 3.17 chs. N. of the reestab. cor. of secs. 7, 8, 17 and 18 hereinbefore described.  
This falling gives the course of this line N.  $87^{\circ} 49'$  W. 83.97 chs.

Thence I run N.  $87^{\circ} 49'$  W. bet. secs. 7 and 18. Over rolling hilly land, through dense brush, gradually ascending.  
0.32 Fence bears N. and S.  
6.55 Dean Prestige house bears S.  $40^{\circ} 15'$  W. descend steep W slope.  
12.40 Over level land, leave brush.  
20.91 Fence bears N. and S.  
28.70 J. C. Young house bears S. 56 lks.  
30.11 J. C. Young barn bears S. 294 lks.  
39.99 Fence bears N. and S.  
42.46 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

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Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

chains.

1915 on S. rim;  
 $\frac{1}{4}$ S7 in N. and  
 S18 in S. half; dig pits 18 x 18 x 12 ins. E and  
 W. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$   
 ft. base  $1\frac{1}{2}$  ft. high, N. of cor.  
 43.80 Cross wash 10 lks. wide course S. E.  
 51.32 Fence bears N. and S.  
 52.40 Road bears N. W. and S.  
 55.40 Ascend through dense brush.  
 83.97 The reestab. cor. of secs. 7 & 18 on W. bdy. of <sup>Tp.</sup> hereinbefore  
 described.  
 Land, level and hilly.  
 Soil, decomposed granite mixed with loam; 1st. rate.  
 No timber.  
 Undergrowth, oak.

July 16, 1915.

Jan. 10, 1915: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ}$   
 $34\frac{1}{2}'$  N. on the lat. arc;  $21^{\circ} 59\frac{1}{2}'$  S. on the decl. arc;  
 and determine a meridian with the solar at the old cor.  
 of secs. 5, 6, 7 and 8, which is a stone, marked and  
 witnessed by the surveyor general, firmly set in the  
 ground. I destroy all traces of the old cor. and re-  
 establish it in the same place as follows:

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the  
 ground for cor. of secs. 5, 6, 7, and 8, marked on  
 brass cap

1915 on S. rim;  
 T14NR4W in N. half;  
 S6 in N. W.  
 S5 in N. E.  
 S8 in S. E. and  
 S7 in S. W. quadrant; and raise a mound of stone 2  
 ft. base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Thence I run

South bet. secs. 7 and 8.

40.71 Fall 38 lks. W. of point for old  $\frac{1}{4}$  sec. cor. which is reestablished  
 at cor. of fence on the testimony of settlers. I find  
 no other trace of old  $\frac{1}{4}$  sec. cor.

Thence from point for  $\frac{1}{4}$  sec. cor. I run  
 South

42.19 Fall 29 lks. E. of the reestab. cor. of secs. 7, 8, 17  
 and 18, hereinbefore described.

These fallings give the courses of the lines as follows:

N.  $\frac{1}{2}$  mile N.  $0^{\circ} 32'$  W. 40.71 chs.

S.  $\frac{1}{2}$  mile N.  $0^{\circ} 24'$  E. 42.19 chs.

From the reestab. cor. of secs. 7, 8, 17 and 18, hereinbefore  
 described, I run

N.  $0^{\circ} 24'$  E. bet. secs. 7 and 8

Over rolling hilly land, through dense brush, along fence  
 bears N. and S.

18.75 Over level land, leave brush.

23.20 Enter land and along fence on W. side of lane.

42.19 The point for old  $\frac{1}{4}$  sec. cor. hereinbefore described.

Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
 ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap

1915 on S. rim;

$\frac{1}{4}$ S7 in W. and

S8 in E. half; dig pits 18 x 18 x 12 ins. N. and S.  
 of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft.  
 base  $1\frac{1}{2}$  ft. high, W. of cor.

This  $\frac{1}{4}$  sec. cor. is at cor. of fence and from it fence  
 runs W. and S.

From this  $\frac{1}{4}$  sec. cor. J. S. Segeress house bears N.  $60^{\circ}$  W.  
 12.84 chs.

Thence from reestab.  $\frac{1}{4}$  sec. cor.

N.  $0^{\circ} 32'$  W.

2.72 Fence bears E. and W. leave lane.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W.

Chains

25.71 Wash 150 lks. wide course S. E.  
 26.05 Same wash 50 lks. wide course S. W.  
 35.35 Fence bears N. E. and S. W. and ascend through dense brush  
 40.71 The reestab. cor. of secs. 5, 6, 7 and 8, hereinbefore described.  
 Land, Hilly, level and mountainous.  
 Soil, decomposed granite; 2nd. rate.  
 No timber.  
 Undergrowth, oak.

January 10, 1915.

January 12, 1915.

From the reestab. cor. of secs. 4, 5, 8 and 9, hereinbefore described, I run  
 West bet. secs. 5 and 8.  
 40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
 77.42 Fall 2.61 chs. S. of the reestab. cor. of secs. 5, 6, 7 and 8, hereinbefore described.  
 This falling gives the course of this line S. 88° 04' E. 77.46 chs.

Thence I run  
 S. 88° 04' E. bet. secs. 5 and 8.  
 Descend through dense brush.  
 6.03 Wash 40 lks. wide course S. ascend.  
 12.00 Ridge bears N. and S. descend.  
 25.00 Over level land, leave brush.  
 38.73 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap 1915 on S. rim;  
 $\frac{1}{4}$ S5 in N. and S8 in S. half; from which  
 A walnut 8 ins. diam., bears N. 7 $\frac{1}{2}$ ° E. 191 lks. dist., marked  $\frac{1}{4}$ S5BT.

No other bearings available. Dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$  ft. base 1 $\frac{1}{2}$  ft. high, N. of cor.

From this cor. J. Davis house bears S: 81° 50' E.  
 41.23 Fence bears N. and S.  
 55.61 Road bears N. and S.  
 60.46 Fence bears N. and S.  
 60.86 Ascend through dense brush.  
 77.46 The reestab. cor. of secs. 4, 5, 8 and 9 hereinbefore described.  
 Land, hilly and level.  
 Soil, decomposed granite, mixed with loam, 1st. rate.  
 No timber.  
 Undergrowth, oak.

January 12, 1915.

January 10, 1915.

From the reestablished cor. of secs. 5, 6, 7 and 8, I run  
 West bet. secs. 6 and 7.  
 40.00 Make careful search but am unable to find any trace of the old  $\frac{1}{4}$  sec. cor.  
 84.05 Fall 7.87 chs. N. of the reestab. cor. of secs. 6 and 7 and 30 on the W. bdy. of the Tphereinbefore described.  
 This falling gives the course of this line S. 84° 39' W. 84.42 chs.  
 From the reestab. cor. of secs. 5, 6, 7 and 8, hereinbefore described I run  
 S: 84° 39' W. bet. secs. 6 and 7.

part of  
Resurvey of the subdivision lines of Tp. 14 N. Rg. 4 W. 32

Chains.  
17.54 Ascend, through dense brush.  
Ridge bears N. and S. descend.  
22.34 Cross wash 10 lks. wide course S. E. ascend.  
28.54 Spur brs. S. & over rolling land, gradual ascent.  
42.59 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S6 in N. and  
S7 in S. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.  
73.00 Ridge bears N. and S. descend.  
73.75 Wash 10 lks. wide course S. ascend.  
84.42 The reestab. cor. of secs. 5, 6, 7, and 8 on the W. bdy.  
of the T~~hereinbefore~~ described.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak and manzanita.

From the reestab. cor. of secs. 5, 6, 7 and 8  
hereinbefore described, I run,

North bet. secs. 5 and 6.  
40.00 Make careful search but am unable to find any trace of  
the old  $\frac{1}{4}$  sec. cor.  
78.81 Fall 2.66 chs. E. of the reestab. cor. of secs. 5, 6, 31  
and 32 on the N. bdy. of the T~~hereinbefore~~ described.  
This falling gives the course of this line S.  $1^{\circ} 56'$  E.  
78.86 chs.  
Thence I run  
S.  $1^{\circ} 56'$  E. bet. secs. 5 and 6  
Ascend through dense brush.  
2.85 Over rolling hills gradually descending.  
39.43 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the  
ground for reestab.  $\frac{1}{4}$  sec. cor., marked on brass cap  
1915 on S. rim;  
 $\frac{1}{4}$ S6 in W. and  
S5 in E. half; and raise a mound of stone 2 ft.  
base  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.  
45.15 Wash 10 lks. wide course S. E. and along W. slope.  
68.85 Ridge bears N. W. and S. E. descend.  
72.35 Wash 50 lks. wide course S. E. ascend.  
78.80 The reestab. cor. of secs. 5, 6, 7, and 8, hereinbefore  
described.  
Land, mountainous.  
Soil, rocky; 4th. rate.  
No timber.  
Undergrowth, oak.

January 10, 1915.

GENERAL DESCRIPTION.

The central part of this township is rolling and hilly and the rest of the township is rough and mountainous.

The soil in the valleys is generally decomposed granite mixed with loam, and produces abundant crops, and the township generally is covered with a dense growth of oak brush.

There is no timber in the township, except a few scattered cedars and pinons on the granite ridges.

There is one settler in sec. 16, two in sec. 18, one in sec. 27, one in sec. 28, three in sec. 33.

*John P. Hesse*  
U. S. Surveyor.

## Survey of Private Tract in Tp. 14 N. Rg. 4 W. 249

Chains.

## Tract No. 37.

The S.  $\frac{1}{2}$  of sec. 33 and the E.  $\frac{1}{2}$  of the S. E.  $\frac{1}{4}$  of sec. 32, Tp. 14 N. Rg. 4 W.

January 28, 1915: At 8h. 00m. a.m., l.m.t., I set off  $34^{\circ} 30\frac{1}{2}'$  N. of the lat. arc;  $18^{\circ} 19'$  S. on the decl. arc; and determine a meridian with the solar at the  $\frac{1}{4}$  sec. cor. bet. secs. 33 and 34, hereinbefore described, which is also the N. E. cor., cor. No. 1 of tract.

Thence I run

77.24

S.  $89^{\circ} 31'$  W. along N. bdy. of Tract No. 37. Cor. No. 2 of Tract, which is identical with the pt. for  $\frac{1}{4}$  sec. cor. bet. secs. 32 and 33, hereinbefore described.

Thence I run

20.48

S.  $88^{\circ} 10'$  W. along N. bdy. of Tract No. 37. Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for the N. W. cor. of Tract No. 37, marked on brass cap

1915 in S. rim;

T14NR4W S32 in N. half;

3 TR 37 in S. E. quadrant.

Thence I run

40.92

S.  $4^{\circ} 03'$  W. along W. bdy. of Tract No. 37. Cor. No 4 of Tract, which is identical with the closing cor. of secs. 5 and 32 on the S. bdy. of the Tp., hereinbefore described.

Thence I run

61.20

N.  $88^{\circ} 42'$  E. along S. bdy. of Tract No. 37. Cor. No. 5 of Tract, which is identical with the  $\frac{1}{4}$  sec. cor. on the N. bdy. of secs. 4, Tp. 13 N. Rg. 4 W., hereinbefore described.

Thence I run

40.14

N.  $89^{\circ} 06'$  E. along S. bdy. of Tract No. 37. Cor. No. 6 of Tract, which is identical with the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp., hereinbefore described.

Thence I run,

40.23

N.  $0^{\circ} 58'$  W. on east bdy. of Tract on line bet. secs. 33 and 34. To NE. cor. (Cor. No. 1) place of beginning.

Jan. 28, 1915.

*John P. Heise*  
U. S. Surveyor.

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BOOK 2006

FOR FINAL OATH OF UNITED STATES SURVEYOR.

SEE BOOK "B"

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_ of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
 this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. FEB 18, 1916

The foregoing field notes of the <sup>RE</sup> survey of the South, West and part of the North boundary and part of the subdivision lines of Township 14 North Range 4 West of the Gila and Salt River Base and Meridian in the State of Arizona, and survey of Private Tract No 37 in said township

executed by John F. Hesse, U. S. Surveyor under his special instructions dated September 26, 1914 for Group 37, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the <sup>resurveys and</sup> surveys they describe, are hereby approved.

*Frank P. Roth*  
 Surveyor General of Arizona.

~~I certify that the foregoing transcript of the field notes of the above described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.~~