BOOK 2330

FIELD NOTES

2530

fragmentary Accepted G. S.O. letter & dated Dec. 17, 1912 OF THE SURVEY OF THE

In the State of EXECUTED BY In the capacity of U.S. Surveyor, under instructions dated May 7, 1911, issued by the United States Surveyor General to govern surveys included in Group No. _____, which were approved by the Commissioner of the General Land (sure 7, 191/, pursuant to authority contained in the Act of Congress dated Money, 1911 Survey commenced (Light 75, 191)
Survey completed (25t. 5, 191)

INDEX DIAGRAM.

| Township | | , Range | | | |
|----------|-----|---------|----|----|----|
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BOOK 2330

INDEX DIAGRAM.

| Towns | hip/ | 180 | , Range | 291 | E. 1 |
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Meanders Page

6-151

6-151 By A. W. Hendrix August 28, 1911.

U. S. Transitman

Chains

Survey commenced August 22m 1911, and executed with W.and L.E. Gurley solar compass, not numbered. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single min-utes of the arc, which is also the least oount of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervis-

ing Surveyor.

I examine the adjustments of the compass, 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 camp near the 1 sec.cor., bet. secs.14 and 15, Tp.18 S., Rg. 29 E., latitude, 31°52'N.; longitude, 109°23'W. I set off 31°52'N. on the lat.arc; ll°56'N. on the decl.arc, and at 5h.00m.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.

At 9h. 3lm.p.m., by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in t the line thus determined, on a peg driven in the ground, 5 chs. N.of my station.

August 22, 1911.

igust 23: At 6h.30m.,a.m.,l.m.t., I lay off the azimuth of Polaris, 1°23' to the west, and mark the meridian thus determined, by cutting a small groove in the stone August 23: set August 22, on which the meridian coincides with

the mark determined by the solar.

At 7h.00m.a.m., l.m.t., I set off 31°52'N. on the lat.arc; l1°44'N. 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 coincides with the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians which coincide with the meridian determined by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.15m.a. m.,1.m.t., is N.13°30'W.; the angle thus determined gives the mag decl. 13°30'E.

I commence at the cor.of secs. 35 and 36 on the South bdy. of the Tp. heretofore described in Book "E" page 2.

Thence I run,

40.00

N.0001'W., bet. secs.35 and 36.

Ascending SE. slope of mountain, through dense brush and

pine timber, Top of ridge, bears E.and W.; descend. 15.00 Drain, 5 lks.wide, course E.; ascend. Top of ridge, bearsNW.and SE.; descend. 18.43 19.20

20.88

Drain, 5 lks.wide, course E.; ascend. Top of ridge, bears E.and W. 22.00 Drain, 6 lks.wide, course SE.; ascend along E.slope of 23.15

mountain. 25.00

Top of ridge, bears E.and W.; descend. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins.in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, S in E. and $\frac{1}{4}$ S 35 in W.half; raise a mound of stone 2 ft.base, lt ft.high, W.of cor. Pits impracticable. August 23: At this 4 sec.cor., I set off 11°39'N. on the decl.arc, and observe the sun on the meridian at noon;

the resulting lat. is 31° $49\frac{1}{2}$ N.

Cross wash, 25 lks.wide, course W. 44.90 Set an iron post 3 ft. long, 2 ins.diam., 24 ins. in the 80.00 ground for cor.of secs. 25,26,35 and 36, marked on

BOOK 2330 Subdivision of Township 18 South Range 29 Chains. rass cap, T 18 S R 29 E in N.half; brass S 26 in NW., S 25 in NE., S 36 in SE., and S 35 in SW. quadrant; from which, A pine 10 ins.diam., bears N.2520W., 66 lks.dist., marked T 18 S R 29 E S 26 B T. A pine 8 ins.diam., bears N.23\(\frac{1}{2}\)e., 42 lks.dist., marked T 18 S R 29 E S 25 B T.

A pine, 16 ins.diam., bears S.8\(\frac{1}{2}\)e., 37 lks.dist., marked T 18 S R 29 E S 36 B T.

A pine 8 ins. diam., bears S.37\(\frac{1}{2}\)e., 33 lks.dist., marked T 18 S R 29 E S 35 B T. Land, mountainous. Soil, rocky and worthless, 4th rate. Timber, pine. Undergrowth, oak brush and manzanita. August 23, 1911. August 24: At 7h.00m.a.m., l.m.t., I set off 31°50'N. on the lat.arc; 11°24'N. on the decl.arg, and determine a meridian with the solar at the cor. of secs 25,26,35 and 36. East, on a random line, bet. secs.25 and 36. Set temp. 2 sec. cor. Intersect E.bdy. of Tp., 35 lks.S.of true point for cor. 40.00 80.22 of secs. 25,30, 31 and 36. Thence I run, S.89°45 W. on a true line, bet. secs.25 and 36. Descending through dense brush and pine timber. Drain, 6 lks wide, course SW., and ascend. Top of ridge, bears N.and S.; descend. .68 16.78 Long John Canyon, 60 lks.wide, course S.; ascend. Point for \(\frac{1}{4} \) sec.cor. falls on insecure place. 39.60 40.11 40.23 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1 sec. witness cor., marked on brass cap, W C 1 in E.half, S 25 in NW% and S 36 in SW. quadrant; from which, A pine, 12 ins. diam., be marked W C 2 S 25 BT. bears N.25°E., 53 lks.dist., A pine, 18 ins. diam., bears S. 36°E., 25 lks.dist., marked W C + S 36 BT + August 24: At this cor. I set off 1101811N. on the decl arc, and observe thesun on the meridian at noon; the the resulting lat. is 31° 50'N. 56.82 The top of ridge, bears N.and S.; descend. Drain, 5 lks.wide, course N., ascend. Top of ridge, bears N. and S.; descend. The cor.of secs.25,26,35 and 36. 76.44 78.71 80.22 Land, mountainous. Soil, rocky and worthless, 4th rate. Timber, pine. Undergrowth, oak brush and manzanita. August 24, 1911. August 25: At 7h.00m.a.m.,l.m.t., I set off 31°50'N.on the lat.arc; 11°03½'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.25,26,35 and 36. N.0001 W., bet. secs.25 and 26. Descending through dense brush and pine timber. 6.00 Drain, 5 lks.wide, course NW., ascend. 22.00 Drain, 5 lks.wide, course NW. Top of ridge, bears NW and SE.; descend. 36.00 Set an iron post 3 ft. long, 1 in . in diam., 26 ins. in 40.00

the ground for $\frac{1}{4}$ sec.cor., marked on brass cap, S 25 in E. and $\frac{1}{4}$ S 26 in W.half; raise a mound of stone 2

Subdivision of Township 18 South Range 29 East.

Chains.

ft.base, 12 ft. high, W.of cor. Pits impracticable. ust 25: At this cor. I set off 10°58 N.on the decl. arc, and observe the sun on the meridian at noon; the August 25: resulting lat.is 31°50' N.

Cross wash, 20 lks.wide, course NW., ascend. 46.25

54.60 65 .00

79.20 80.00

Drain, 15 lks.wide, course NW.

Top of ridge, bears NW.and SE.; descend.

Cross wash, 10 lks.wide, course SE.; ascend.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor of secs. 23,24,25 and 26, marked on brass cap, T 18 S R 29 E in N.half;

S 23 in NW.,

S 24 in NE.,

S 25 in SE., and S 26 in SW. quadrant; from which

A pine 20 ins.diam., bears N.72°35'W., 25 lks.dist., marked T 18 S R 29 E S 23 B T.

A pine, 16 ins.diam., bears N.56°42'E., 75 lks.dist., marked T 18 S R 29 E S 24 B T.

A pine 20 ins. diam., bears S. 16° 54' E., 61 lks. dist., marked T 18 S R 29 E S 25 B T.

A pine 14 ins. diam., bears S. 32°16'W., 60 lks. dist., marked T 18 S R 29 E. S 26 B T.

Land, mountainous

Soil, rocky and worthless, 4th rate.

Timber, pine.

Undergrowth, oak brush and manzanita.

August 25, 1911. Alfred M. Christon. U. S. Transitman.

Survey commenced August 25, 1911, and executed with an A. Lietz Co. light mountain transit N. 5631, with solar attachment. The horizontal limb is provided with two double verniers, placed opposite each other, reading to single minutes of the arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and approved by the Supervising Surveyor.

- I examine the adjustments of the transit, and find them correct; then, to test the solar apparatus, by comparing its indications, resulting from solar observa-tions made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:
- At camp near the 1 sec.cor., bet. secs. 14 and 15,T 18 S., R.29 E., latitude, 31°52'N.; longitude, 10°23'W., I set off 31°52'N.on the lat.arc; 10°55' N.on the
- decl.arc, and at 5h.00m.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. At 9h.19m.p.m., by my watch, which has correct l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a neg driven in the the line thus determined, on a peg driven in the ground, 5 chs. N.of my station.

August 25, 1911.

August 26: At 6h. 30m., a.m., l.m.t., I lay off the azimuth of Polaris, 1°23' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set August 25, on which the meridian coincides with the mark determined by the solar.

4 Chains.

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At 7h.00m.a.m., l.m.t., I set off 31°52'N.on the lat.arc; 10°42½'N. 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 coin-
   cides with the meridian established by the Polaris ob-
   servation.
The solar apparatus, by p.m. and a.m. observations de-
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fines positions for meridians which coincide with the meridian determined by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.15m.a. m.,1.m.t., is N.13°30'W.; the angle thus determined gives the mag. decl. 13°30'E.

I commence at cor.of secs. 23,24,25 and 26,

Thence I run,

East, on a random line, bet. secs.24 and 25.

40.00

Set temp. 1 sec.cor.
Intersect E.bdy.of Tp. 5 lks.S.of cor. of secs.19,24,25 80.28 and 30.

Thence I run,

S.89.58'W. on a true line, bet. secs.24 and 25. Descending through dense brush and heavy timber.

14.58

Cross wash, 15 lks.wide, course NW.; ascend.
Set an iron post, 3 ft. long, l in. in diam., 26 ins. in the ground for \(\frac{1}{4} \) sec.cor., marked on brass cap, \(\frac{1}{4} \) S 24 in N. and S 25 in S.half; from which, 40.14

A pinon, 8 ins.diam., bears N.28°36'E.,50 lks.
dist., marked ½ S 24 B T.
A pinon, 9 ins.diam., bears S.45° 47' W., 11 lks.
dist., marked ½ S 25 B T.
Top of ridge, bears N.and S.; descend.
The correct secs 23.24.25 and 24

45.33

The corrof secs .23,24,25 and 26. 80.28

Land, mountainous.

Soil, rocky and worthless, 4th rate.
Timber, pine, pinon, oak, fir and juniper.
Undergrowth, manzanita, oak brush and needle brush. August 26: Cloudy weather prevented observation for late

at noon.

6.35

40.00

N.0001'W., bet. secs.23 and 24. Ascending through dense brush dense brush and scattering timber.

15.00

Ascending through dense brush and scattering timber.

Top of ridge, bears NW.and SE.; descend.

Cross wash, 10 lks.wide, course NW.; ascend.

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{2} \) sec.cor., marked on brass cap, S 24 in E. and \(\frac{1}{2} \) S 23 in W.half; raise a mound of stone 2 ft. base, \(\frac{1}{2} \) ft. high, W.of cor. Pits impracticable.

Top of ridge, bears E.and W.; descend.

Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor.of secs.13,14,23 and 24, marked on brass cap.

43.55 00.08

brass cap, T 18 S R 29 E inN.half;

S 14 in NW.,

S 13 in NE.,

S 24 in SE., and

S 23 in SW. quadrant; raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable. Land, mountainous.

Soil, rocky and worthless, 4th rate.

Timber, pine, pinon, fir, juniper, oak and walnut. Undergrowth, manzanita, mahogany, oak and needle brush. August 26, 1911.

August 27: At 7h.00m., a.m., l.m.t., I set off 310512 N. on the lat.arc; 10°22'N. on the decl.arc, and determine a meridian with the solar at the cor. of secs. 13,14, 23 and 24.

in N. and S 13 in S.half; raise a mound of stone 2 ft.

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40.11

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Subdivision of Township 18 South, Range 29 East.
Chains
           base, 1\frac{1}{2} ft. high, N.of cor. Pits impracticable. Cross road, bears NW. and SE. Cross wash, 8 lks.wide, course NW. The cor.of secs. 11,12,13 and 14.
 67.22
 68.72
 80.22
           Land, mountainous.
Soil, rocky and worthless, 4th rate.
Timber, pine, pinon, fir, oak, juniper and walnut.
Undergrowth, oak, mahogany and needle brush, and cacti.
August 28: Cloudy weather prevented observation for
                lat. at noon.
           N.0001' W., bet. secs. 11 and 12.

Descending, through dense brush, and scattering timber.

Creek in bottom of Thompkins' Canyon, clear running water,
  2.50
                10 lks.wide, 4 ins. deep, course SW.; ascend.
            Cross road, bears E.and W.
  4.00
           Top of ridge, bears E.and W.; descend.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins.in
 25.00
 40.00
                the ground for \frac{1}{4} sec.cor., marked on brass cap, S 12 in E. and \frac{1}{4} S 11 in W.half; from which,
An oak, 12 ins.diam., bears N.8\frac{3}{4}°W., 46 lks.dist.,
                        marked & S 11 B T.
                   An oak, 8 ins.diam., bears S.20°E., 13 lks.dist., marked \(\frac{1}{4}\) S 12 B T.
           Drain, 5 lks.wide, course NW.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
 48.85
 00.08
                the ground for cor of secs 1,2,11 and 12, marked on
                brass cap,
T 18 S R 29 E in N.half;
S 2 in NW.,
S 1 in NE.,
                   S 12 in SE., and
                   S 11 in SW.quadrant; from which,
An oak, 12 ins.diam., bears N.40°W., 48 lks.dist.,
                   An oak, 12 ins.diam., bears N.40 marked T 18 S R 29 E S 2 B T.
                       oak, 10 ins.diam., bears N.513°E., 79 lks.dist., marked T 18 S R 29 E S 1 B T.
                   An oak, 10 ins.diam.,
                   An oak, 10 ins.diam., bears S.48 E., 28 lks.dist., marked T 18 S R 29 E S 12 B T.
                   An oak, 12 ins.diam., bears S.26\frac{3}{4}°W., 21 lks.dist., marked T 18 S R 29 E S 11 B T.
           Land, mountainous.
            Soil, rocky and worthless, 4th rate.
            Timber, pine and juniper.
           Undergrowth, oak brush and manzanita.
                                                                   August 28, 1911.
                gust 29: At 7h.00m.a.m., l.m.t., I set off 31°53½'N.on the lat.arc; 9°40'N. on the decl.arc, and determine
            August 29:
                 a meridian with the solar at the cor.of secs.1,2,11
                and 12.
            East, on a random line, bet. secs.1 and 12.
            Set temp. 1 sec.cor.
Intersect E.bdy.of Tp.14 lks.N.of cor. of secs.1,6,7 and
 40.00
 80.16
                12.
            Thence I run,
            N.89°54'W. on a true line, bet. secs.l and 12. Ascending, through dense brush and timber.
            Cross road, bears NE and SW.
   7.16
            Top of ridge, bears N. and S.; descend.
 38.16
            Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the
 40.08
                 ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S l in
                N. and 12 in S.half; raise a mound of stone 2 ft.
                base, light. high, N.of cor. Pits impracticable.
            Cross wash 5 lks.wide, course S.; ascend.
 41 .41
 58.16
          Top of ridge, bears N.and S.; descend.
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7.
   Subdivision of Township 18 South, Range 29 East.
Chains
          The cor of secs 1,2,11 and 12.
80.16
          Land, mountainous.
          Soil, rocky and worthless, 4th rate.
           Timber, oak and juniper.
          Undergrowth, oak brush and manzanita. August 29: At this cor. I set off 9034 1 N. on the decl.
               arc, and observe the sun on the meridian at noon; the
               resulting lat. is 31° 53\frac{1}{2}'N.
          North, on a random line, bet. secs.1 and 2.
          Set temp. ½ sec.cor.
Intersect N. bdy.of Tp. 7 lks. E.of cor. of secs.1,2,35
40.00
79.90
               and 36.
          Thence I run,
          S.0°03 E., on a true line, bet. secs.1 and 2.
          Descending through dense brush, and scattering timber. Cross wash, 5 lks.wide, course SW.; ascend.
 1.50
19.40
          Top of ridge, bears NE.and SW.; descend.
35 .80
          Rock Creek, clear water, 8 lks.wide, 4 ins.deep, course
          NW.; ascend.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
39.90
               the ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S 1 in E. and S 2 in W.half; from which,
                 An oak, 10 ins.diam., bears S.57°10'E., 56 lks.dist., marked ½ S 1 B T.

An oak, 10 ins.diam., bears S.55°03'W., 95 lks.dist.,
                      marked & S 2 B T.
57.90
          Top of ridge, brs. NW.and SE.; descend.
          The cor of secs 1,2,11 and 12. Land, mountainous.
79.90
          Soil, rocky and worthless, 4th rate.
          Timber, pine, pinon, fir,oak, juniper and walnut.
Undergrowth,oak,mahogany and needle brush and cacti.
August 29, 1911.
                                                                      John & Hesse
                                                                          U.S.Transitman.
          August 26: At 7h.00m.a.m., l.m.t., I set off 31°49'N.on the lat.arc; 10^{\circ}42\frac{1}{2}'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.34 and
               35 on the S.bdy.of the Tp.
          N.0001 W., bet. secs.34 and 35.
Descending through dense brush and timber.
          Drain, 5 lks.wide, course NE.; ascend. Top of ridge, brs.E.and W.; descend.
   .61
15.15
          Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
40.00
               the ground for \frac{1}{4} sec.cor., marked on brass cap, S 35 in E., and \frac{1}{4} S 34 in W.half; from which,
                 A pine 10 ins.diam., bears N.822°E., 1.06 chs.dist., marked 4 S 35 B T.
                  A pine, 18 ins. diam., bears S.852°W., 84 lks.dist.,
                      marked & S 34 B T.
          August 26: Cloudy weather prevented observation for lat.
              at noon.
         August 27: At 7h.00m.a.m., l.m.t., I set off 31^{\circ}49\frac{1}{2}'N.on the lat. arc; 10^{\circ}22'N. on the decl. arc, and determine a meridian with the solar at \frac{1}{4} sec.cor.of secs.34 and
          Thence I continue,
          N.0001 W., bet. secs.34 and 35. Descending through dense brush and timber.
          Drain, 5 lks.wide, course NW.; ascend. Top of ridge, bears NW.and SE.; descend.
50.20
60.39
         Drain, 5 lks.wide, course NE.; ascend.
Top of ridge, bears E.and W.; descend.
Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in
67.86
72 .84
80.00
               the ground for cor. of secs. 26,27,34 and 35, marked
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Soil, rocky and worthless, 4th rate.

Timber, pine, fir,oak, juniper and pinon. Undergrowth,oak and mahogany brush,manzanita and cacti.

August 31: At this cor. I set off $8^{\circ}51\frac{1}{2}$ 'N. on the declarc, and observe the sun on the meridian at noon; the resulting lat. is $31^{\circ}50\frac{1}{2}$ 'N.

East, on a random line, bet. secs.23 and 26.

40.00 Set templa sec.cor.
79.96 Intersect N and S. line 14 lks.S.of cor. of secs. 23,24,
25 and 26.

Thence I run, S.89054 W. on a true line, bet. secs.23 and 26.

Ascending through dense brush and scattering timber.

alfud M. Clerry

September 1: At 7h.00m.a.m., l.m.t., I set off 31°50½'N. on the lat.arc; 8°35½'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.22,23,26 and 27.

N.0001'W., bet. secs.22 and 23.

Descending through dense brush and heavy timber.

Creek, clear running water, 20 lks.wide, 8 ins.deep,
course NW., ascend.

2.33

September 2: At 7h.00m. a.m., l.m.t., I set off 31°51½'N. on the lat.arc; 8°14'N. on the decl.arc, and determine a meridian with the solar at the cor. of secs. 14, 15.

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BOOK 2330
Subdivision of Township 18 South, Range 29 East.
Chains
               22 and 23.
           West, on a random line, bet. secs.15 and 22.
 40.00 Set temp. + sec.cor.
 80.42 Intersect N. and S. line, 3 lks S. of cor. of secs. 15, 16,
           21 and 22.
September 2: At this cor. I set off 8008'N on the decl.
                arc, and observe the sun on the meridian at noon; the
                resulting lat.is 31°512'N.
           Thence I run,
           S.89°59'E. on a true line, bet. secs.15 and 22.
           Ascending through dense brush and timber.
 Ascending through dense brush and timber.

Top of ridge, bears N.and S., descend.

Drain, 7 lks.wide, course NW.; ascend.

Set an iron post 3 ft. long, 1 in. in diam., 26ins, in the ground for \(\frac{1}{2}\) sec.cor., marked on brass cap, \(\frac{1}{2}\) Sin N. and S 22 in S.half; from which,

A pine 8 ins. diam., bears N.10°E., 11 lks.dist., marked \(\frac{1}{2}\) S 15 B T.

A pine, 6 ins. diam., bears S.20°W., 16 lks.dist., marked \(\frac{1}{2}\) S 22 B T.
                        marked 1 S 22 B T.
 41.22 Top of ridge, bears N. and S.; descend. 58.42 Drain 6 lks.wide, course NW.; ascend. 71.42 Top of ridgem brs. N. and S.; descend. 80.42 The cor. of secs. 14, 15, 22 and 23.
           Land, mountainous.
           Soil, rocky and worthless, 4th rate.
            Timber, cak and pine.
           Undergrowth, oak brush and manzanita.
                                                                      September 2, 1911.
                                                                     alfred M. Oliver
                                                                            U.S.Transitman .
           September: 2:At 7h.00m.a.m., l.m.t., I set off.31°51½'N. on the lat.arc; 8°14'N. on the decl.arc, and determine
                 a meridian with the solar at the cor. of secs. 14,15,22
           and 23.
N.0001'W., bet. secs.14 and 15.
           Descending, through dense brush and heavy timber.
   4.35 Creek, clear running water, 15 lks.wide, 6 ins.deep,
                course W.; ascend.
  27.35 Top of ridge, bearsnE.and W., descend.
39.89 Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for 1 sec. witness cor., marked on brass
                   W C \( \frac{1}{2} \) in N.half;
S 14 in SE., and
S 15 in SW. quadrant; from which,
A juniper, 40 ins.diam., bears S.81° 26'E., 156 lks.
dist., marked W C \( \frac{1}{2} \) S 14 B T.
                    A juniper 20 ins.diam., bears N. dist., marked W C & S 15 B T.
                                                          bears N.64° 35'W., 60 lks.
39.94 Turkey Creek, cleark running water, 20 lks.wide, 8 ins.
                 deep, course W.
  40.00 Point for & sec.cor. falls in creek.
40.65 Fence bears NE.and SW.
48.05 Fence bears NE.and SW.
           Cross road, bears NE.and SW.
  49.10
  52.15 Creek in Thompkins! Canyon, clear running water, 20 lks. wide, 8 ins. deep, course SW.; ascend.
  72.00 Drain 5 lks.wide, course SE.
80.00 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,
T 18 S R 29 E in N.half;
                    S 10 in NW.,
                   S 11 in NE.,
S 14 in SE., and
                    S 15 in SW. quadrant; raise a mound of stone 2 ft.
                 base, 12 ft. high, W. of cor. Pits impracticable.
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BOOK 2330
Subdivision of Township 18 South, Range 29 East
Chains
74.00
           Top of ridge, bears N.and S.; descend.
80.30
           The cor. of secs. 10,11,14 and 15.
          Land, mountainous.
           Soil, rocky and worthless, 4th rate.
           Timber, pine, pinon, oak, juniper and fir.
           Undergrowth, oak brush, mahogany and cacti.
                                                               September 4. 1911.
                                                                        alfred M. Oliver
                                                                              J. S. Transitman.
           September 4: At 7h.00m.a.m., l.m.t., I set off 31.52\frac{1}{2} N.
               on the lat.arc; 7030'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs.10,11,14
               and 15.
          N.0°01'W., bet. secs.10 and 11.
Ascending through dense brush and scattering timber.
18.35
           Top of ridge, bears E.and W.; descend.
23.50
          Drain, 16 lks.wide, course SE.; ascend.
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
40.00
               the ground for \frac{1}{4} sec. cor., marked on brass cap \frac{1}{4} S 10 inw. and S 11 in E.ahalf; from which,

An oak, 12 ins. diam., bears N.70°18'W., 66 lks.

dist., marked \frac{1}{4} S 10 B T.
                  An oak, 10 ins. diam., bears N.07045 E., 57 lks.dist.,
                     marked & S 11 B T.
          Top of ridge, brs.NE. and SW., descend.
Cross wash, 10 lks.wide, course NW.; ascend.
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
50.00
70.50
00.08
               brass cap,
T18 S, R 29 E in N.half;
S 3 in NW.,
                  S 2 in N.,
               S 11 in SE., and
S 10 in SW. quadrant; raise a mound of stone 2 ft.
base, 12 ft. high, W.of cor. Pits impracticable.
           Land, mountainous.
           Soil, rocky and worthless, 4th rate.
           Timber, pinon and oak.
          Undergrowth, oak, mahogany and cacti. September 4: At this cor. I set off 7°24'N. on the decl.
               arc, and observe the sun on the meridian at noon;
               the resulting lat. is 31°53½ N.
          East, on a random line, bet. secs.2 and ll. Set temp. 1 sec.cor. Intersect N. and S. line, 9 lks.N.of cor.of secs.1,2,11
40.00
80.10
               and 12.
           Thence I run,
          N.89°56'W., on a true line, bet. secs.2 and ll. Descending through dense brush and scattering timber. Cross wash, 10 lks.wide, course NW.; ascend.
15.10
          Top of ridge, bears NW.and SE.; descend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
32.60
40.05
               ground for $\frac{1}{4}$ sec.cor., marked on brass cap, $\frac{1}{4}$ S 2 in N. and S 11 in S.half; from which,
                   An oak, 14 ins.diam., bearsN .34°26'E.,27 lks.dist.,
                  marked 1 S 2 B T.

An oak 12 ins.diam., bears S.15°22'W., 49 lks.dist.,
marked 1 S 11 B T.
50.25
           Cross wash, 10 lks.wide, course NW.; ascend.
          Top of ridge, brs.NW. and SE.; descend. Cross wash, 10 lks.wide, course NW.; ascend. Top of ridge, bears NW. and SE.; descend. Cross wash, 10 lks.wide, course NW.; ascend.
51.60
52.75
59.10
63.10
76.60
           Top of ridge, bears W.and SE.; descend.
           The cor. of secs. 2, 3, 10 and 11.
80.10
           Land, mountainous.
           Soil, rocky and worthless, 4th rate.
```

Timber, oak, pine, pinon, and juniper. Undergrowth, oak, mahogany, needle brush and cacti. September 4, 1911

September 5: At 7h.00m.,a.m.,l.m.t., I set off $31^{\circ}53\frac{1}{2}$ 'N on the lat.arc; $7^{\circ}08$ 'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs 2,3,10 and 11.

North, on a random line, bet. secs.2 and 3. Set temp. 2 sec.cor.

40.00

Intersect N.bdy.of Tp. 28 lks.E.of cor.of secs. 2,3,34 80.14 and 35.

At this cor. I set off 7002! N. on the decl. September 5: arc, and observe the sun on the meridian at noon; the resulting lat.is 31° 54'N.

Thence I run,

S.0°12'E.on a true line, bet. secs. 2 and 3. Ascending through dense brush and scattering timber.

8.14

21.14

32.14

Top of ridge, bears E.and W.; descend.

Cross wash, 8 lks.wide, course SW.; ascend.

Top of ridge, bears NE.and SW.; descend.

Set an iron post 3 ft.long, 1 in. in diam., 26 ins. in
the ground for + sec.cor. marked on brass can. + S 40.14 the ground for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 3 in W. and S 2 in E.half; from which,

An oak, 8 ins.diam., bears N.65°24'W., 40 lks.dist.,

marked 4 S 3 B T.

An oak, 17 ins.diam., bears
dist., marked 4 S 2 B T. bears S.41°53'E., 112 1ks.

58.78

Cross road, bears NE.and SW.
Rock Creek, clear running water, 8 lks.wide, 4 ins.deep,
course SW.; ascend. 59.64

The cor of secs .2,3,10 and 11. 80.14

Land, mountainous.

Soil, rocky and worthless, 4th rate. Timber, pine, pinon, oak, juniper and walnut.

Undergrowth, oak, mahogany, needle brush and cacti. September 5, 1911.

John & Hease

I set off 31°532' At 7h.00m., a.m., 1.m.t., September 5: N. on the lat.arc; 7008'N. on the decl.arc, and determine a meridian with the solar at the cor.of secs. 2,3, 10 and 11.

West, on a random line, bet. secs. 3 and 10. Set temp. \(\frac{1}{4}\) sec. cor. Intersect N.and S. line 18 lks.S.of cor.of secs.3,4,9 40.00 80.36 and 10.

At this cor. I set off 7002' N.on the decl September 5: arc; and observe the sun on the meridian at noon; the resulting lat. is 31°53½'N.

Thence I run,

15.36

30.46

34.36

37.61

Thence I run, S.89°52'E., on a true line, bet. secs.3 and 10. Ascending through dense brush and timber. Top of ridge, bears N.and S.; descend. Cross wash, 10 lks.wide, course SW.; ascend. Top of ridge, brs.N.and S.; descend. Cross wash, 5 lks.wide, course SW.; ascend. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{4} \) sec.cor., marked on brass cap, \(\frac{1}{4} \) S in N. and S 10 in S.half; from which, An oak 12 ins. diam. bears N.76°51'E.. 69 lks. 40.18

An oak, 12 ins. diam., bears N.76°51'E., 69 lks. dist., marked ½ S 3 B T.
A juniper, 18 ins. diam., bears S.9°44'W., 114

lks.dist., marked \frac{1}{4} S 10 B T.

42.36 Top of ridge, brs.N.and S.; descend.

Subdivision of Township 18 South.

Chains

Rock Creek, chear running water, 8 lks.wide, 4 ins. deep, 51.46 course SW.; ascend.
Cross wash, 10 lks.wide, course NW.
The cor.of secs.2,3,10 and 11.

60:86

80.36 Land, mountainous.

Soil, rocky and worthless, 4th rate.
Timber, pine, juniper, oak and fir.
Undergrowth, oak and mahagany brush and cacti.

September 5, 1911.

afford n. Olivs U.S.Transitman.

GENERAL DESCRIPTION.

This township is extremely rough and mountainous, and covered with a dense growth of underbrush and oak, pine and juniper timber. The soil generally is worthless for agricultural purposes being rocky, but in the bottom of the small valleys along the small creeks there is considerable land, which is very fertile and will grow fine crops of fruits. The township is mall watered by Turkey Creek Bock Creek Tompkins. is well watered by Turkey Creek, Rock Creek, Tompkins' Creek, and other unnamed small brooks. There is no mineral in the township. There is one settler in sec.15, and one in sec.14, but on account of the very dense timber and brush it was impossible to get bearings from any point on the lines, and as it would have taken at least a day each to locate the houses by a traverse line, I considered the expense too great.

U. S. Transitman.

FINAL OATHS OF U. S. TRANSITMAN AND HIS ASSISTANTS. /

| L | IST OF NAMES | s. l | BOOK | 2330 |
|---|-----------------------|---------------------|-------------|-----------------------|
| A list of the names of the individua | ls employed by Joh | n F. Hesse | | · |
| , Unite | d States Transitm | an to assist in | n running, | measuring, and |
| marking the lines and corners described in | the foregoing field n | otes of the surve | ey ofth | e |
| Subdivision lines of Tp. 18 | S. Rg. 29 E. | | | · |
| showing the respective capacities in which | they acted: | | | |
| | R. A. Coombs. | R. L. Ba | tes | , Chainman. |
| H. R. Harvey | J. H. Bates | A. E. Lyo | on | , Chainman. |
| · | | E. E. Mi | lls | , Moundman. |
| | J. L. Gardner | H. R. Har | rvey | , Moundman. |
| · | | H.F. Di | llman | , Axman. |
| | | E. Barnes | 3 | , Axman. |
| A. W. Hendrix, | W. L. Ray | Ralph Ero | own | , Flagman. |
| | ATH OF ASSI | • | : | · |
| We hereby certify that we assisted | John F. Hesse | | | |
| | | | | · |
| | | | of th | e Gila and |
| Salt River meridian, Ter | ritoryofA | rizona | , which | are represented |
| in the foregoing field notes as having been has been in all respects, to the best of ou corner monuments established, according | r knowledge and beli | ief, well and fa | ithfully su | rveyed, and the |
| General for Arizona | | | | |
| CAR Harwey | B. G. 6 | vermbo.l | J.E. Kyr | , Chainman. |
| J. H. Idulas | blo Di | Jales, | | , Chainman. |
| | o Co mill | / , . | | , Moundman. |
| Ja J | iduer | SHR Sta | V | , Moundman. $Axman$. |
| 1 lon ho | tap AG | P. Dillm | | |
| Swiftendings M. L. 1 | () b | $n \in \mathcal{T}$ | | 乙, Flagman. |
| | · | | | |
| Subscribed and sworn to before me this | | | () 11 | |

U. S. Transitman

FINAL OATH OF UNITED STATES DE 2330 BOOK +, We, John F. Hesse and Alfred N. Oliver, United States Deputy Survey solemnly swear that, in pursuance of a contract received from Jank On United States Surveyor General for , bearing date of the Of the day of May 19// We have well, faithfully, and truly, income own proper person sand in strict confdrmity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of Tp. 18 S, Rg, 29 E. of the Gila and Salt River meridian, in the Territory of Arizona , which are represented in the foregoing field notes as having been surveyed by use, and under our direction; and we 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 United States Surveyor General for Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. Transitmen and sworn to before me Subscribed by said SURVEYOR-BENERA APPROVAL. OFFICE OF THE UNITED STATES SUPPLEYOR GENERAL. The foregoing field notes of the survey of ___ executed by _ ect No. J, dated (lig. 2), 19/0, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the

United States Surveyor General.

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.

surveys they describe, are hereby approved.