Dook E.

BOOK 2329

## FIELD NOTES 2329

OF THE SURVEY OF THE

East My Duc Hart law Douth Blue I18/1. R 29 6
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<u></u> .
of the Tile Dalt River Meridian,
In the State of
EXECUTED BY
- Auf
Alfred V. Oliver
In the capacity of U.S. Surveyor, under instructions dated May 1, 191/,
issued by the United States Surveyor General to govern surveys included in
Group No, which were approved by the Commissioner of the General Land
Office,
Survey commenced (lugust /8, 191)
Survey completed

## INDEX DIAGRAM.

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6	5	4	8	2	1
7	8	9	10	11	12
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Verse Contract

BOOK 2329

## INDEX DIAGRAM.

Townsi	hip	8/2	, Range 4	796		_
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De la companya del companya de la companya del companya de la comp
239 PRELIMINARY OATHS OF ASSISTANTS.
WE, J. H. Bates, A. E. Lyon, and R. A. Coombs, R. L. Bates do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the East and fractional North and South boundaries of Tp. 18 S. Rg. 29 E.  R. A. Leosmile., Chainman.  HP Harvey  Subscribed and sworn to before me this 15th.
day of August , 1911  By H. R. Harvey, August 19, 1911.  U. S. Transitman
WE, E. E. Mills, J. L. Gardner and H. R. Harvey do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the East and fractional North and South boundaries of Tp.18 S. Rg.29 E.
Subscribed and sworn to before me this 15th.
day of August, 1911  By J. L. Gardner, August 21, 1911.  U. S. Transitman
WE, E. Barnes, W.M. Sanders, and H. F. Dillman do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
the East and fractional North and South boundaries of Tp. 18 S. Rg. 29 E.  M. M. Sounders  E. Barres, Axman.  Axman.
Subscribed and sworn to before me this 15th.  day of August , 1911  John D. Kesse  U. S. Transitman
We, Ralph Erown, W. L. Ray , do solemnly swear that will well and truly perform the duties of flagman according to instructions given us to the best of paskill and ability, in the
survey of the East and fractional North and South bdys. of Tr. 18 S. Rg. 29 E.  W. L. Pay. Ralph Brown, Flagman.  Subscribed and sworn to before me this 15th.
day of August 16, 1911.  By W. L. Ray August 16, 1911.  John J. Kesse  U. S. Transitman.

South boundary of Township 18 South. Range 29

**2**329

BOOK

Survey commenced August 18, 1911, and executed with a W. and L.E.Gurley solar compass, not numbered. The hori-zontal 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 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 \(\frac{1}{4}\) sec.cor., bet. secs.14 and 15, Tp.18 S., R. 29 E.; latitude, 31°52'N.; longitude, 109°23'W., I set off 31°52'N. on the lat.arc; 13°15'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 determine with the firmly set in the ground 5 chs. M.of my station.

At 9h. 46m.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 peg driven in the ground 5 chs . N.of my station.

August 18, 1911.

August 19: At 6h.30m., a.m., l.m.t., I lay off the azi-muth of Polaris, 1°23 to the west, and mark the meridian thus determined, by cutting a small groove in the stone set August 18, 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;  $13^{\circ}03\frac{1}{2}$ '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 corner of secs. 3,4,33 and 34 on the S.bdy.of the township, which is a stone marked and witnessed, as described by the Surveyor General. Thence I run,

East, bet. secs.3 and 34, Tp. 19 S., R. 29 E., and Tp.18 S., R.29 E. respectively.

Ascending through dense brush and timber,

Drain, 5 lks.wide, course NV. 15.00

30.57

Brain, 6 lks.wide, course NE. Set an iron post 3 ft.long, 1 in in diam., 26 ins. in the 40.00 ground for \$\frac{1}{4}\$ sec.cor., marked on brass cap, \$\frac{1}{4}\$ S 34 in N., and S 3 in S.half; from which,

A pine 18 ins. diam., bears N.06\frac{3}{2}\cdot E., 48 lks.dist.,

marked T 18 S R 29 E S 34 B T.

A pine 16 ins.diam., bears  $S.56\frac{3}{4}$ °E., 31 lks.dist., marked T 19 S R 29 E S 3 B T.

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

T 18 S in N., T 19 S in S.,

00.08

POOT SEE

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R 29 E in W.half;
S 34 in NW..,
                            S 35 in NE.,
                            S 2 in SE., and
                  S 3 in SW.quadrant; raise a mound of stone 2 ft. base, la ft. high, W.of cor. Pits impracticable.
            Land, mountainous.
             Soil, rocky and worthless, 4th rate.
             Timber, oak, pine and juniper.
             Undergrowth, manzanita and oak brush.
             Cloudy weather prevented observation for latitude at noon.
                                                                            August 19, 1911.
             August 21: At 7h.00m.a.m., l.m.t., I set off 31°49'N.on
                the lat.arc; 12°24'N. on the decl.arc, and determine a meridian with a solar at the cor.of secs.2,3,34
                   and 35.
             East, bet. secs. 2 and 35.
             Descending through dense brush and timber.
             Drain, 6 lks.wide, course SE.
12.42
             Cross wash, 20 lks.wide, course SW.; ascend.
Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
22.84
40.00
                 ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S 35 in N. and S 2 in S.half; from which,
                      An oak, 6 ins. diam., bears N.05°W, 26 ]ks.dist., marked T 18 S, R 29 E S 35 B T.

A pine, 10 ins.diam., bears S.253°E., 42 lks.dist., marked T 19 S R 29 E, S 2 B T.
            Top of ridge, bears N.and S.; descend.
Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the
ground for cor.of secs. 1,2,35 and 36, marked on brass
46.06
80.00
                  cap,
T 18 S in N.,
T 19 S in S.,
Rg. 29 E. in W.half,
                  S 36 in NE.,
S 1 in SE., and
S 2 in SW. quadrant; raise a mound of stone 2 ft.
base, l\frac{1}{2} ft. high, W. of cor. Pits impracticable.
             Land, mountainous.
             Soil, rocky and worthless, 4th rate. Timber, oak, juniper and pine.
             Undergrowth, manzanita and oak brush.
             August 21: At this cor. I set off 12°19'N., on the decl.
                   arc, and observe the sun on the meridian at noon; the resulting latis 31° 49'N.
            East, bet, secs.l and 36.

Descending through dense brush and timber.

Long John Canyon,50 lks.wide, course SW.; ascend.

Set an iron post 3 ft. long, l in. in diam., 26 ins. in the ground for \(\frac{1}{4}\) sec.cori, marked on brass cap, \(\frac{1}{4}\) S in N. and S l in S.half; raise a mound of stone 2 ft.base, \(\frac{1}{2}\) ft. high, N.of cor. Pits impracticable.

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

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor.of Ts.18 and 19 S., Rs.29 and 30 E., marked on brass cap
23.03
40.00
77.18
                                                                                              24 ins. in the
80.00
                   marked on brass cap,
                       T 18 S in N.,
                       R 30 E in E.,
                       T 19 3 in S.,
                       R 29 E in W.half;
                           36 in NW.,
                       S 31 in NE.,
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S 1 in SW. quadrant; raise a mound of stone 2 ft.

S 6 in SE., and

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South boundary of Township 18 South Range 29 Eas

Chains .

base, l½ ft. high, 3.of cor. Pits impracticable. Land, mountainous.

Soil, rocky and worthless, 4th rate.

Timber, pine and juniper.

Undergrowth, manzanita and oak brush.

August 21, 1911. Afrid M. Olinn

U.S. Transi tman.

Chains.

Survey commenced August 17, 1911, and executed with an A. Lietz Co. light mountain transit, No.5631, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to 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 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 \(\frac{1}{4}\) sec.cor., bet. secs.14 and 15,T.18 S., R.29 E., letitude, 31°52'N.; longitude, 109°23'W.,I set off 31°52'N. on the lat.arc; 13°34'W. on the declarc; and at 5h.00m.a.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.50m.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 peg driven in the ground

5 chs. N.of my station.

August 17, 1911.

August 18: 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 17, 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; 13°23'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 obsefvation.

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. declination 13°30'E.

I commence at the corner of secs. 3,4,33 and 34 on the N. bdy. of Tp. 18 S., R. 29 E., which is a stone marked and witnessed, as described by the Surveyor General. Thence I run,

East, on a random line along M.bdy.of Tp.18 S.,Rg.29 E., setting temp.  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs., and at 240.00 chs. set temp. cor.for Tps. 17 and 18 S., Rs.29 and 30 E.

August 18 and 19,1911.

August 30, 1911.

The east boundary of T.18 S., R.29 E., when run north, intersected the north bdy. 45 lks.E.of temp, cor.of Ts.17 and 18 S., Rs.29 and 30 E., and at point of intersection, an iron post 3 ft. long, 3 ins. diam., was set 24 ins. in the ground for cor.of Ts.17 and 8 18 S.Rs.29 and 30 E., marked on brass cap, T 17 in N.,

R 30 in E.,

T 18 S in S., and

R 29 E in W.half;

-04-830

Top of ridge, brs . N. and S.; descend. 50.00

Cross wash, 20 lks. wide, course SE.; ascend. 79.50 80.00

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,
T 17 S in N.,
T 18 S in S., and R 29 E in W.half; S 34 in NW.,

245 BOOK 2329 North boundary of Township 18 South Chains. S 35 in NE., S 2 in SE., and S 3 in SW. quadrant; raise a mound of stone 2 ft. base, la ft.high, W.of cor. Pits impracticable. Land, mountainous.
Soil, rocky, and worthless, 4th rate.
Timber, pine, pinon, oak, fir and juniper. Undergrowth, manzanita, oak and mahogany. West, on a true line, bet. secs. 3, and 34. Ascending through dense brush and timber. Ascending through dense brush and timber.

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

Cross wash, 10 lks.wide, course SE.; 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 S.half; raise a mound of stone 2 ft.base, \( \frac{1}{2} \) ft. high, N.of cor. Pits impracticable.

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

Cross wash, 15 lks.wide, course SW.; ascend.

The cor.of secs.3,4,33 and 34, Ts.17 and 18 S., R.29 E., a stone marked and witnessed, as described by the Surveyor General. 12.20 31.50 40.00 49.35 75.70 80.45 veyor General. Land, mountainous.
Soil, rocky and worthless, 4th rate.
Timber, pine, pinon, oak, fir and juniper.
Undergrowth, manzamita, oak and mahogany. August 30, 1911. John & Hisse U. S.Transitman.

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East boundary of Township 18 South, Range
Chains
             August 23: At 7h.00m.a.m., 1.m.t., I set off 31°49'N.
                 on the lat.arc; ll°44'N.on the decl.arc, and determine the meridian with the solar at the cor.of Ts.18 and 19
                 S., Rs.29 and 30 E., previously described.
             Thence I run,
             North, on E.bdy.of T.18 S., R.29 E., bet. secs.31 and 36. Ascending through dense brush and timber, Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the
 40.00
             ground for the \(\frac{1}{4}\) sec.cor., marked on brass cap, \(\frac{1}{4}\) S 36 in W. and S 31 in \(\mathbb{E}\).half; raise a mound of stone 2 ft. base, \(\frac{1}{2}\) ft. high, W.of cor. Pits impracticable.

Top of ridge, bears NW.and SE.; descend.
 47.00
             Cross wash, 10 lks.wide, course SW.; ascend. Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for witness, cor. of secs. 25,30,31 and 36, marked
 71.41
 79.00
                 on brass cap,
                         W_C, S of center;
                         T 18 S in N.half;
R 29 E, S 25 in NW.,
R 30 E, S 30 in NE.,
S 31 in SE., and
                         S. 36 in SW. quadrant; from which,
An oak, 9 ins.diam., bears N.20°53'W., 36 lks
dist., marked W C T 18 S R 29 E, S 25 B T.
A pine, 8 ins.diam., bears N.46°E., 30 lks.
dist., marked W C T 18 S R 30 E, S 30 B T.
                                                                                            36 lks.
                         A pine 12 ins.diam., bears S.20°09'E., 57 lkg dist., marked W C T 18 S R 30 E, S 31 B T.

A pine 10 ins, diam., bears S,30°55'W., 12 ll dist., marked W C T 18 S R 29 E, S 36 B T.
                                                                                            57 lks -
            Point for cor.falls on edge of wash, 20 lks.wide, course
 00.08
                SW.
             Land, mountainous.
             Soil, rocky and worthless, 4th rate.
             Timber, pine, fir, oak, pinon and juniper.
             Undergrowth, manzanita and oak
             August 23: At this 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° 50'N.
             From true point, for cor.of secs.25,30,31 and 36, I run,
             North, bet. secs.25 and 30.
             Ascending through scattering brush and timber.
             Top of ridge, bears NW and SE .; descend.
 19.50
 40.00
             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 25 in W., and S 30 in E.half; from which,
                         A pine, 9 ins.diam., bears S.61°12'W.,
                              dist., marked T 18 S, R 29 E S 25 B T.
            A pine, 14 ins. diam., bears S.46°55'E., 62 lks. dist., marked T 18 S, R 30 E, S 30 B T.

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

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

Cross wash, 5 lks.wide, course NW.; ascend.

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor.of secs.19,24,25 and 30, marked on brass can
 60.00
 64.60
 70.00
 00.08
                brass cap,
T 18-S in W.half;
                         R 29 E, S 24 in 1W.,
                         R 30 E, S 19 in HE.,
                         S 30 in SE., and
S 25 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, fir and oak, very heavy on and near top of
            Undergrowth, manzanita, oak and elder berries.
                                                                    August 23, 1911.
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BOOK 2329
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                                                                           Range 29 East
             East boundary of Township 18 South.
    Chains .
                 August 24: At 7h.00m.a.m., l.m.t., I set off 31^{\circ}50\frac{1}{2}'N. on the lat.arc; 11^{\circ}24'N., 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, bet. secs.19 and 24.
                 Descending through dense brush and timber.
                 Creek, clear running water, 15 lks.wide, 6 ins. deep, cou
      25.55
                      course NE.
                 Set an iron post 3 ft. long, ] in. in diam., 26 ins. in the ground for \frac{1}{4} sec.cor., marked on brass cap, \frac{1}{4} S 24 in W. and S 19 in E.half; from which,
      40.00
                                                            bears N.43º 26'W., 87 1ks.dist 4,
                          An oak, 10 instaliam.
                              marked T 18 S R 29 E, S 24 B T.
                          A pine 12 ins.diam., bears N.28°50'E., 69 lbs.dist., marked T 18 S R 30 E, S 19 B T.
                 Cross road, bears NW.and SE.
      64.10
                 Creek, clear running water, 15 lks.wide, 6 ins.deep,
      65.30
                       course NW.
                 Creek, clear running water, 15 lks.wide, 6 ins.deep,
      72.30
                       course ME.
                 Cross old logging road, bears WE.and SW.; ascend. Set an iron post 3 ft. long, 3 ins.diam., 24 ins. in the ground for cor.of secs.13,18,19 and 24, merked on
      77.30
      80.00
                       brass, cap,
T, 18 S in M.half.
                          R 29 E, S 13 in \overline{NW}.,
                        R 30 E, S 18 in NE., S 19 in SE., and
                          5 24 in SW., quadrant; raise a mound of stone 2 ft.
                       base, li ft. high, W. of cor. Pits impracticable.
                  Land, mountainous.
                  Soil, rocky and worthless, 4th rate.
                  Timber, pine, oak, fir, pinon and juniper.
                  Undergrowth, manzanita, ook, mahogany and needle brush.
                  August 24: At this cor. I set off 11018 1N. on the
                       decl.arc, and observe the sun on the meridian at noon; the resulting lat.is 31^{\circ} 51\frac{1}{2}.
                  North, bet. secs. 13 and 18.
Descending through dense brush and timber.
                 Cross old logging road, bears NW and SE.
        4.50
                  Turkey Creek, clear running water, 50 lks.wide, 4 ins.
       12.20
                  deep, course NW.; ascend.
Cross old log road, bears NE.and SW.
Drain, 10 lks.wide, course SW.
       24.00
                  Drain, 10 lks.wide, course SW.

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 l3 in \(\frac{1}{4}\). and S 18 in \(\frac{1}{4}\). half; raise a mound of stone 2 ft. base, \(\frac{1}{2}\) ft. high, \(\frac{1}{4}\). Or cor. Pits impracticable.
       24.25
       40.00
                  Top of ridge, bears E.and W.; descend.
Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. ir
the ground for cor.of secs. 7,12,13 and 18, marked
       75.20
       00.08
                        on brass cap, T 18 S in N.half;
                        R 29 E, S 12 in NW.,
R 30 E S.7 in NE.,
                           S.18 in SE., and
                           S 13 in SW.quadrant; from which,
A juniper, 32 ins, diam., bears N.81°04'W., 29 lks.
dist., marked, T 18 St R 29 E, S 12 B T.
                           An oak, 26 ins.diam., bears N.60°55'E., 9 dist., marked T 18 S, R 30 E, S 7 B T. An oak, 14 ins.diam., bears S.16°45'E., 7
                                                                                             92 lks.
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dist., marked T 18 S R 30 E S 18 B T.

An oak, 9 ins.diam., bears S.34°51'W., 48 lks.

dist., marked T, 18 S, R 29 E, S 13 B T.

Timber, pine, pinon, fir, oak, juniper and walnut.

Soil, rocky and worthless, 4th rate.

Land, mountainous.

19.

Undergrowth, manzanita, oak, mahogany and heedle brush. August 24, 1911.

August 25: At 7h.00m.a.m., l.m.t., I set off  $31^{\circ}52\frac{1}{2}$  N.on the lat. arc;  $11^{\circ}03\frac{1}{2}$  N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7,12,13 and 18.

Thence I run,

North, bet. secs. 7 and 12.

Descending through dense brush and timber.

Cross wash 8, lks.wide, course SW.; ascend. .40 7.00

Top of ridge, bears E.and W.; descend. Cross wash, 10 lks.wide, course NW.; ascend. 22.65

36.00

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

Drain, 6 lks.wide, course NW.

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 12 in W. and S. 7 in E.half; from which,

An oak, 10 ins. diam., bears S.72002'W., 41 lks. dist., marked T 18 S R 29 E, S 12 B T.

An oak, 8 ins. diam., bears N.77021'E., 32 lks. dist., marked T 18 S, R 30 E S 7 B T.

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

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

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

Set an iron post 3 ft. long, 3 ins. diam., 24 ins. in the ground for cor.of secs.1,6,7 and 12, marked on brass cap, 40.00

46.00 69.50

brass cap,

T 18 S in N.half, R 29 E, S 1 in NW., R 30 E S 6 in NE.,

S 7 in SE., and S 12 in SW. quadrant; from which,

S 12 in SW. quadrant; from which,
A juniper 8 ins.diam., bears N.54° 02' W., 140
lks.dist.,marked T 18 S R 29 E, S 1 B T.

An oak, 9 ins.diam., bears N.41°39'E., 100 lks
dist., marked T 18 S, R 30 E, S 6 B T.

An oak, 9 ins.diam., bears S.51°04'E., 45 lks.
dist., marked T 18 S R 30 E, S 7 B T.

An oak, 7 ins.diam., bears S.21°56' W., 12 lks.
dist., marked T 18 S, R 29 E, S 12 B T.

mountainous.

100 lks.

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

Undergrowth, manzanita, oak and mahogany. August 25: At this cor. I set off 10°58'N. on the decl. arc, and observe the sun on the meridian at noon; the resulting lat is 31°53½'N.

North, bet. secs.1 and 6.

Descending through dense brush and timber.

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

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

28.40 Cross road, brs NE and SW.

Rock Creek, clear running water, 15 lks.wide, 6 ins.deep, 34.65 course SW.; 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 l in W. and S 6 in E.half; from which, 40.00

A juniper 24 ins.diam., bears S.84°17'W., 53 lks. dist., marked T 18 S, R 29 E S 1 B T.

An oak, 14 ins.diam., bears N. 79°30'E., 96 lks.

dist., marked T 18 S, R 30 E, S 6 B T.

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

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

The cor.of Ts.17 and 18 S., Rs.29 and 30 E., previously 79.70 described.

48.50

74.00

1.05

8.55

70.35 80.00

East boundary of Township 18 South, Range 29 East.

Chains

Land, mountainous.
Soil, rocky and worthless, 4th rate.
Timber, pine, pinon, juniper, walnut and oak.
Undergrowth, manzanita, oak and needle brush. August 25, 1911.

## GENERAL DESCRIPTION.

This township is very rough and mountainous. The township is well watered and well timbered, and the soil along the streams is very fertile.

Boundaries of Township 18 South, Range 29 East. Latitudes, departures, and closing errors.

Line Designa	ted.	True bearing.	D <b>ist</b> ance.	Latiti N.	ides.	Departu E.		w.
South E East Bd North E West E Converse	у. фу.	East, North, West, South,	479.10 479.70 478.65 480.00	479.700	480.00	479.10	478	65 <b>4</b> 5
			laide,	479.70	480.00 479.70	479.10	479	10

U. S. Transitman.

11
200

LIST OF NAM	MES.
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LIST OF NAME	s.	BOOK 23
A list of the names of the individuals employed by J.	ohn F. Hesse	
, United States Deputy Sur	ansi tman veyer, to assist in running.	measuring an
marking the lines and corners described in the foregoing field r		
East and fractional North and South bounds	aries of Tp. 18 S.	Rg. 29 F
showing the respective capacities in which they acted:	<u> </u>	<u>8. 20 41,</u>
H. R. Harvey J. H. Bates	A. E. Lvon	Chainman
R. A. Coombs		
J. L. Gardner		
Rainh Brown		
Ralph Brown		, Flagman.
We hereby contifue that the state of Assis		
We hereby certify that we assisted John F. Hesse	-Fr .V	
Salt River meridian, Territory of Another the foregoing field notes as having been surveyed by him and	under his direction, and the	are represented
s been in all respects, to the best of our knowledge and believer monuments established, according to the instructions funeral for Arizona	ef, well and faithfully surv	ravial and the
PHarvey R. a. Goran	n 65. Q E. Lyon	
IH Bales R		, Chainman. , Chainman.
	m 41	
· Jarduer 1	LRHONA	
( on m & lie & B		, Moundman.
~ LI 67	arnes	Axman.
	Dillman.	
W. I. Hay. Malps	a Brown,	Flagman.
<u> </u>		
oscribed and sworn to before me this 30th.		
day of August, 19 11 R. A. Coombs August 19, 1911	ohn D. Hes	
O SEAL & O O O O O O O O O O O O O O O O O O		
-151 By Ralph Brown August 24, 1911.	U. S. Transi tman	•

By H. F. Dillman August 28, 1911.

FINAL OATH OF UNITED STATES DEPUTY X, We John 4. Hesse and Offsed V. Oliver, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from South D. Dyall \_\_\_\_, bearing date of the United States Surveyor General for Chica ...., 19// , we have well, faithfully, and trylly, in my own JSM day of May proper persons, and in strict conformity with the instructions furnished by the United States Surveyor , the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of W. S. and E. boundaries of Salt River meridian, in the Persitory of anyona, which are represented in the foregoing field notes as having been surveyed 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 United States Surveyor General for <u>Unizona</u> and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey. , and sworn to before me Subscribed by said SURVEYOR-GENERAL OF ABIZONA APPROVAL. OFFICE OF THE UNITED STATES SURVEYOR GENERAL The foregoing field notes of the survey of Cuy, 7, 19/0, having been \_√\_\_\_\_, dated \_\_\_\_\_ examined, and the necessary corrections and/explanations made, the said field notes, and the surveys they describe, are hereby approved. 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.

United States Surveyor General.