

Accepted May 31, 1912

FIELD NOTES

OF THE SURVEY OF THE

Regulatory Subdivision of *T 15 N. R. 13 W.*
2270

2270

Of the *G and S R* Meridian,
~~Secretary~~
In the State of *Arizona*

EXECUTED BY

John J. Hesse

In the capacity of U. S. ~~Surveyor~~ ^{Assistant}, under instructions dated *August 21, 1910*,
issued by the United States Surveyor General to govern surveys included in
Group No. *4*, which were approved by the Commissioner of the General Land
Office, *September 9*, 1910, pursuant to authority contained in the Act of
Congress dated *June 25*, 1910. ^{And March 4, 1911}

Survey commenced *April 26*, 191*1*

Survey completed *May 3*, 191*1*

1A

BOOK 2270

INDEX DIAGRAM.

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INDEX DIAGRAM.

Township _____, Range _____

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. E. Lyon and J. H. 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 subdivision lines of Tp 15 N. Rg. 13 W.

A. E. Lyon, Chainman.
J. H. Bates, Chainman.

Subscribed and sworn to before me this 27th
day of April, 1911



John P. Hesse
U. S. Transitman

WE, J. R. L. Bates and
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 subdivision lines of Tp 15 N. Rg. 13 W.

J. R. L. Bates, Moundman.
Moundman.

Subscribed and sworn to before me this 27th
day of April, 1911



John P. Hesse
U. S. Transitman

WE, Ed. Brockway and J. P. Ellis
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 subdivision lines of Tp 15 N. Rg. 13 W.

Ed. Brockway, Axman.
J. P. Ellis, Axman.

Subscribed and sworn to before me this 27th
day of April, 1911



John P. Hesse
U. S. Transitman

I, L. E. Flanagan, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of Tp 15 N. Rg. 13 W.

L. E. Flanagan, Flagman.

Subscribed and sworn to before me this 27th
day of April, 1911



John P. Hesse
U. S. Transitman

Chains.

Survey commenced April 26, 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 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 my camp in Sec. 13, Tp. 15 N., R. 13 W.; latitude $34^{\circ}38'35''$ N.; longitude, $113^{\circ}33'24''$ W.; I set off $34^{\circ}38\frac{1}{2}'$ N. on the lat. arc; $13^{\circ}26'$ 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 the cor.

April 26, 1911.

April 27:

At 5h. 13m. a.m., by my watch, which has correct l.m.t., I observe Polaris at eastern 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 6 a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}25'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set April 26 on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 7h.00m. a.m., l.m.t., I set off $34^{\circ}38\frac{1}{2}'$ N. on the lat. arc; $13^{\circ}37\frac{1}{2}'$ 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 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 0'16" east and west 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 7h.15m. a.m. is $N.14^{\circ}30'W.$; the angle thus determined gives the mag. decl. $14^{\circ}30'E.$

From the corner of secs. 19, 24, 25 and 30, on the east boundary of the township, previously described in Book N, I now run,

West, between secs. 24 and 25.

Descending rolling W. slope, through dense brush.

Over dry bed of Big Sandy River.

25.25

Road bears N. and S.

26.80

East edge of water 6 ins. deep, course S.

35.00

Leave water and river bed, and ascend E. slope.

39.50

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 $\frac{1}{4}$ S 24 in N. and S 25 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

40.00

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,

80.00

T 15 N R 13 W in N. half;

S 23 in NW.,

S 24 in NE.,

S 25 in SE., and

S 26 in SW quadrant; and raise a mound of stone

Chains.

2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 This cor. is on top of high ridge, bears nearly E. and W.
 Land, rough and mountainous.
 Soil, rocks and loose sand; 4th rate.
 No timber.
 Undergrowth, mesquite, catclaw, greasewood and palo verde.

N. 0° 01' W., between secs. 23 and 24.

Descending steep N. slope, through dense brush.

- 9.00 Wash, 100 lks. wide, course E., and ascend.
- 16.00 Ridge bears E. and W., descend.
- 20.65 Wash, 8 lks. wide, course E.; ascend.
- 27.50 Ridge bears E. and W.; descend.
- 30.50 Wash, 10 lks. wide, course E.; ascend.
- 35.00 Ridge bears E. and W.; descend.
- 40.00 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 $\frac{1}{4}$ S 23 in W., and S 24 in E. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of corner. Pits impracticable.
- 43.75 Wash, 12 lks. wide, course E., ascend.
- 44.75 Ridge bears E. and W.
- 46.25 Across wash.
- 54.00 Leave wash, and ascend.
- 60.00 Ridge bears E. and W., descend.
- 63.50 Wash, 100 lks. wide, course E.; ascend.
- 64.50 Ridge bears E. and W.; descend.
- 65.50 Wash, 100 lks. wide, course E., ascend.
- 70.00 Ridge bears E. and W., descend.
- 74.00 Wash, 100 lks. wide, course E., ascend.
- 80.00 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,
 T 15 N R 13 W in N. half;
 S 14 in NW.,
 S 13 in NE.,
 S 24 in SE., and
 S 23 in SW. quadrants; 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, greasewood, catclaw, palo verde and scrub cedar.

April 27, 1911.

April 28: At 7h.00m a.m., 1 m.t., I set off $34^{\circ}38'N$ on the lat. arc; $13^{\circ}56\frac{1}{2}'N$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

Thence I run,
 East, on a random line, bet. secs. 13 and 24.

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect E. bdy. of Tp. 35 lks. S. of the true point for cor. of secs. 13, 18, 19 and 24.

Thence I run,
 $S. 89^{\circ}45'W.$, on a true line, bet. secs. 13 and 24.
 Over dry bed of Big Sandy River.

- 2.90 Cross road, bears N. and S.
- 12.15 Adobe house, empty, bears $N. 11^{\circ}05'E.$
- 24.15 Right bank of Big Sandy River, dry, course S., and over level land.
- 24.58 Enter grain field.
- 35.77 Leave grain field.
- 35.90 Brush fence bears N. and S.
- 35.95 Cross irrigating ditch 8 lks. wide, course S., and through

Chains.

40.00 dense brush.
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 $\frac{1}{4}$ S 13 in N., and S 24 in S.half; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,N.of cor. Pits impracticable.
From this cor. adobe house noted above bears N.48°52'E.
40.14 Rail fence bears N.and S.
41.20 Rail fence bears N.and S.
41.57 Road bears N.and S.
43.00 Ascend rocky E.slope of mountains.
46.00 Wash, 8 lks.wide, course SE.
54.50 Wash,12 lks.wide, course SE.
65.00 Wash,10 lks.wide, course SE.
78.95 Wash, 8 lks.wide, course SE.
79.95 The cor.of secs.13,14,23 and 24.
Land,level and mountainous.
Soil, 1st 24.15 chs., loose sand; 4th rate, from 24.15 chs. to 43.00 chs. rich sandy loam, medium texture, dry, 1st rate; from 43.00 chs.to 79,95 chs. rocky, 4th rate.
Timber, cottonwoods along river.
Undergrowth, mesquite, catclaw,palo verde and greasewood.

N, 0°01' W. bet. secs. 13 and 14.
Along rocky E. slope of mountains.
5.00 Wash, 8 lks.wide, course E.
8.75 Wash,10 lks.wide, course E.
11.10 Wash, 8 lks.wide, course E.
13.00 Wash, 14 lks.wide, course E.
19.00 Wash,20 lks.wide, course E.
25.00 Across wash.
32.50 Leave wash, course E.
40.00 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 $\frac{1}{4}$ S 14 in W., and S 13 in E.half; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high,W.of cor. Pits impracticable.
45.50 Wash, 25 lks.wide, course E.
49.75 Descend steep NE. slope.
55.50 Wash,10 lks.wide, course E.
62.00 Wash, 20 lks.wide, course E.
72.24 Wire fence bears E.and W., and over level cultivated land.
72.94 Rail fence bears NE.and SW.
74.00 Irrigating ditch, 4 lks.wide, course SE.
74.20 Wire fence bears NW.and SE.
75.41 Wire fence bears E.and W.
80.00 Set an iron post 3 ft.long,2 ins.diam.,24 ins.in the ground for cor.of,secs.11,12,13 and 14,marked on brass cap
T 15 N R 13 W in N.half;
S 11 in NW.,
S 12 in NE.,
S 13 in SE., and
S 14 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.
From this cor. the SE.cor.of Bowman's house bears N.16° 49'W., 1.87 chs. dist.
Land,level and mountainous.
Soil to 72.24 chs. rocky and worthless, 4th rate.;from 72.24 chs. to 80.00 chs. rich sandy loam,medium texture, dry; 1st rate.
Timber, a few cottonwoods.
Undergrowth, greasewood,palo verde,catclaw and mesquite.

4. Subdivision of Township 15 North, Range 13 West.

Chains,

N.89°45'E. on a random line, bet. secs.12 and 13.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 79.98 Intersect E.bdy.of Tp.12 lks. S.of the cor.of secs.7,12,13 and 18.
 Thence I run,
 S.89°40'W. on a true line, bet. secs.12 and 13.
 Descending rolling W.slope of mountains, dense brush.
 33.50 Cross wash, 200 lks.wide, course SW.
 39.99 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 $\frac{1}{4}$ S 12 in N. and S 13 in S.half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,N.of cor. Pits impracticable.
 42.85 Rail fence bears N.and S., and over level land.
 43.00 Irrigating ditch 5 lks.wide, course SE.
 43.76 Same ditch from NW.
 44.11 Rail fence bears N.and S.over cultivated land.
 48.91 Rail fence bears N.and S.; leave cultivated land, and through dense brush.
 49.15 Road bears N. and S., and from this point N. Barregas' house bears S.37°43'W., 1.16 chs. dist.
 49.34 Rail fence bears N.and S.
 50.45 Irrigating ditch 4 lks.wide, course S.
 50.56 Rail fence bears N.and S.
 50.84 Road bears N.and S.
 51.33 Irrigating ditch bears 5 lks.wide, course S.
 52.85 Left bank of Big Sandy River, and over dry bed of river.
 72.00 Enter running water 6 ins. deep in bed of river,course S.
 73.25 Leave water.
 73.75 Right Bank of Big Sandy River, and over cultivated land.
 74.10 Irrigating ditch 5 lks.wide, course S.
 77.90 Fence bears N.and S.
 79.98 The cor.of secs.11,12,13 and 14.
 Land,level and mountainous.
 Soil to 42.85 chs. rocky, 4th rate, then sandy loam,medium texture, dry, 1st rate.
 Timber, a few cottonwoods.
 Undergrowth, catclaw, greasewood,palo verde and mesquite.
 April 28: At this cor. I set off 13°59 $\frac{1}{2}$ 'N.on the decl. arc; and observe the sun on the meridian at noon; the resulting lat.is 34°39'N.

N.0°01'W., bet. secs. 11 and 12.
 Over level cultivated land.
 1.11 Wire fence bears E.and W.
 6.25 Irrigating ditch 5 lks.wide, course W.
 7.55 Fence bears E.and W., and through dense brush.
 8.30 Road bears NE.and SW.
 22.00 Wash,10 lks.wide, course SE.
 29.27 Irrigating ditch 5 lks.wide, course SE.
 30.00 Ridge bank of Big Sandy River.
 34.80 Enter water running in bed of river, course SE.
 36.30 Leave water.
 40.00 Point for $\frac{1}{4}$ sec.cor. falls in river bed.
 48.80 Left bank of Big Sandy River.
 49.54 Irrigating ditch 7 lks.wide, course SE.
 52.30 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for witness $\frac{1}{4}$ sec.cor., marked on brass cap, W C $\frac{1}{4}$ in N.half, S 12 in SE., and S 11 in SW. quadrant; from which,
 A mesquite 8 ins.diam., bears S.75° 16'E., 107 lks. dist., marked W C $\frac{1}{4}$ S 12 B T.
 A catclaw, 7 ins.diam., bears S.5° W., 54 lks. dist., marked W C $\frac{1}{4}$ S 11 B T.
 63.30 Wash,30 lks.wide, course W.
 75.25 Fence NE.and SW.
 76.33 Irrigating ditch 5 lks.wide, course SW.

Chains.

- 76.45 Fence NE. and SW., and through corn field.
 79.36 Fence bears NE. and SW., and leave corn field.
 80.00 Set an iron post 3 ft. long, 2 ins. diam., 24 ins. in the ground for cor. of secs. 1, 2, 11 and 12, marked on brass cap,
 T 15 N R 13 W in N. half;
 S 2 in NW.,
 S 1 in NE.,
 S 12 in SE., and
 S 11 in SW. quadrant; dig pits 18x18x12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land, level.
 Soil, very sandy loam, 2nd rate.
 Timber, cottonwood.
 Undergrowth, mesquite, catclaw, water mote, arrowweed, palo verde and greasewood.
-
- N. 89° 40' E. on a random line, bet. secs. 1 and 12.
 40.00 Set temp. ¼ sec. cor.
 79.82 Intersect E. bdy. of Tp. 5 lks. N. of the cor. of secs. 1, 6, 7 and 12.
 Thence I run,
 S. 89° 42' W. on a true line, bet. secs. 1 and 12.
 Descend W. slope of rolling mountains, through dense brush.
 39.91 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 1 in N. and S 12 in S. half; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 60.65 Road bears NW. and SE.
 74.46 Mexican adobe house bears S. 27° 29' W., 3.58 chs. dist.
 75.88 Rail fence, bears N. and S.
 76.54 Irrigating ditch 4 lks. wide, course SW.
 79.35 Brish fence bears N. and S.
 79.82 The cor. of secs. 1, 2, 11 and 12.
 Land, rolling hills.
 Soil, W. half sandy loam, mixed with some rocks, 1st rate.
 E. half, rocky, 4th rate.
 No timber.
 Undergrowth, catclaw, mesquite, palo verde and greasewood.
- April 28, 1911.
-
- April 29.
 N. 0° 01' W., on a random line, bet. secs. 1 and 2.
 40.00 Set temp. ¼ sec. cor.
 80.30 Intersect N. bdy. of Tp. 28 lks. E. of the cor. of secs. 1, 2, 35 and 36.
 Thence I run,
 S. 0° 13' E., bet. secs. 1 and 2.
 Over level land, through dense brush.
 2.00 Left bank of Big Sandy River.
 2.50 Cross running water, 4 ins. deep in bed of river, 75 lks. wide, course SE.
 8.50 Right bank of Big Sandy River.
 27.85 Wire fence bears NW. and SE., and over cultivated ground.
 40.30 Set an iron post 3 ft. long, 1 in. diam., 26 ins. in the ground for ¼ sec. cor., marked on brass cap ¼ S 2 in W. and S 1 in E. half; dig pits 18x18x12 ins. N. and S. of post 3 ft. dist., and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.
 60.05 Cross fence bears NW. and SE.; leave cultivated land

6. Subdivision of Township 15 North, Range 13 West.

Chains.

- and through dense brush.
- 60.45 Irrigating ditch, 5 lks.wide, course SW.
 - 70.25 Right bank of Big Sandy River.
 - 76.80 Cross running water, 4 ins.deep in bed of river, 75 lks. wide, course SW.
 - 79.30 Left bank of Big Sandy River.
 - 80.30 The cor.of secs.1,2,11 and 12.
Land, level.
Soil, very sandy loam, 2nd rate, excepting in bed of river, which is loose sand, 4th rate.
Timber, cottonwood.
Undergrowth, willow, water mote, arrowweed, mesquite.
April 29, 1911.

May 1: At 7h.00m. a.m., l.m.t., I set off $34^{\circ} 38' N.$ on the lat.arc; $14^{\circ} 52\frac{1}{2}' N.$ on the decl.arc, and determine a meridian with the solar at the cor.of secs. 13,14,23 and 24.

- Thence I run,
West, bet. secs.14 and 23.
Ascending east slope of mountains, through dense brush.
- 3.80 Wash, 12 lks.wide, course SE.
 - 26.55 Wash, 10 lks.wide, course SE.
 - 30.50 Wash, 20 lks.wide, course SE.
 - 40.00 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 $\frac{1}{4}$ S 14 in E., and S 23 in S.half; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, N.of cor. Pits impracticable.
 - 40.80 Cross wash, 6 lks.wide, course S.
 - 72.80 Cross wash, 5 lks.wide, course NW.
 - 80.00 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,
T 15 N R 13 W in N.half;
S 15 in NW.,
S 14 in NE., and
S 23 in SE., and
S 22 in SW. quadrant; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.
Land, rough and mountainous.
Soil, rocky, 4th rate.
No timber.
Undergrowth, greasewood, palo verde and scrub cedar.
- May 1: At this cor.I set off $14^{\circ} 55\frac{1}{2}' N.$ on the decl.arc; and observe the sun on the meridian at noon; the resulting lat.is $34^{\circ} 38' N.$

N.0°01'W., bet. secs. 14 and 15.
Along rough broken E.slope of mountains, through dense brush.

- 2.75 Cross wash, 300 lks.wide course E.
- 40.00 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 $\frac{1}{4}$ S 15 in W. and S 14 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 Cross wash, 300 lks.wide, course E.
- 49.50 Cross wash, 40 lks.wide, course E.
- 61.80 Cross wash, 20 lks.wide, course E.
- 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor.of secs.10,11,14 and 15, marked on brass cap,
T 15 N R 13 W in N.half;
S 10 in NW.,
S 11 in NE.,
S 14 in SE., and

Chains.

and S 15 in SW. quadrant; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land, rough and mountainous.

Soil, loose rocks, 4th rate.

No timber.

Undergrowth, greasewood, palo verde and scrub cedar.

May 1, 1911.

May 2: At 7h.00m.a.m., 1.m.t., I set off $34^{\circ} 39' N$. on the lat.arc; $15^{\circ} 10\frac{1}{2}' N$. on the decl.arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run,

East, on a random line, bet. secs. 11 and 14.

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

79.98 Intersect N. and S. line 5 lks. N. of the cor. of secs. 11, 12, 13 and 14.

Thence I run,

N. $89^{\circ} 58' W$., on a true line, bet. secs. 11 and 14.

Over level land.

1.12 Cross irrigating ditch 5 lks. wide, course S., and wire fence bears N. and S.

4.00 Ascend rough E. slope of mountains, through dense brush.

39.99 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 $\frac{1}{4}$ S 11 in N., and S 14 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

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

Land, level and mountainous.

Soil, 1st 4.00 chs. rich sandy loam, 1st rate; last 76.00 chs. rocks, 4th rate.

No timber.

Undergrowth, greasewood, palo verde, mesquite and catclaw.

May 2: At this cor. I set off $15^{\circ} 13\frac{1}{2}' N$ on the decl.

arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 39' N$.

N. $0^{\circ} 01' W$. bet. secs. 10 and 11.

Along rough broken E. slope of mountains, through dense brush.

5.35 Wash, 20 lks. wide, course E.

18.00 Wash, 25 lks. wide, course E.

38.00 Wash, 40 lks. wide, course E.

40.00 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 $\frac{1}{4}$ S 10 in W., and S 11 in E. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

65.00 Wash, 100 lks. wide, course E.

80.00 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,

T 15 N R 13 W in N. half;

S 3 in NW.,

S 2 in NE.,

S 11 in SE., and

S 10 in SW. quadrant; and raise a mound of stone

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

Land, rough and mountainous.

Soil, rocks, 4th rate.

No timber.

Undergrowth, greasewood, palo verde and scrub cedar.

May 2, 1911.

8. Subdivision of Township 15 North, Range 13 West.

Chains.

- May 3: At 7h.00m.a.m.,l.m.t., I set off $34^{\circ} 40' N.$ on the lat.arc; $15^{\circ} 28' 30'' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.2,3,10 and 11.
- Thence I run,
S. $89^{\circ} 58' E.$ on a random line bet. secs. 2 and 11.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
79.92 Intersect N.and S. line 7 lks.S.of the cor. of secs.1,2,11 and 12.
- Thence I run,
S. $89^{\circ} 59' W.$, on a true line, bet. secs.2 and 11.
Over level land, through dense brush.
- 00.30 Left bank of Big Sandy River, dry, course S,
11.00 Right bank of Big Sandy River.
13.15 Wire fence bears NW.and SE.
28.37 Wire fence bears NW.and SE.
33.00 Ascend rough broken E. slope of mountains.
39.96 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, $\frac{1}{4}$ S 2 in N., and S 11 in S. half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,N.of cor. Pits impracticable.
- 49.25 Wash, 10 lks.wide, course N.
79.92 The cor.of secs.2,3,10 and 11.
Land, level and mountainous.
Soil sand and rocks, 4th rate.
Timber, cottonwood.
Undergrowth, greasewood, arrowweed, mesquite, catclaw, water mote, and palo verde.
- May 3: At this cor. I set off $15^{\circ} 31\frac{1}{2}' N.$ on the decl. arc; and observe the sun on the meridian at noon; the resulting lat. is $34^{\circ} 40' N.$
-
- N. $0^{\circ} 01' W.$, on a random line, bet. secs.2 and 3.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.48 Intersect N.bdy,of Tp. 26 lks.E.of the true point for cor. of secs.2,3,34 and 35.
- Thence I run,
S. $0^{\circ} 12' E.$ on a true line, bet. secs.2 and 3.
- 2.00 Witness corner.
Ascend steep N. slope out of wash, through dense brush.
- 13.20 Ridge bears E.and W., and along rough broken E.slope of mountains.
17.25 Cross wash,12 lks.wide, course SE.
20.00 Cross wash, 18 lks.wide, course E.
36.50 Cross wash, 20 lks.wide, course E.
40.48 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 $\frac{1}{4}$ S 3 in W. and S 2 in E.half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,W,of cor. Pits impracticable.
- 54.50 Cross wash, 25 lks.wide, course NE.
72.00 Cross wash,100 lks.wide, course NE.
80.48 The cor.of secs.2,3,10 and 11.
Land, rough and mountainous.
Soil, rocks, 4th rate.
No timber.
Undergrowth, greasewood,palo verde and mesquite.
May 3, 1911.
-

GENERAL DESCRIPTION.

This township is all rough and mountainous, excepting a narrow strip along the Big Sandy River in the NE.cor. of the township; therefore, I confine my surveys in

this township to these sections which contain all the agricultural land in the township. The soil of the land along the river is a rich sandy loam, and capable of producing abundant crops with irrigation. There are two settlers in Sec.13, one in Sec.11 and one in Sec.2. Cottonwoods grow along the river. Copper ore is found in the western part of the township.

John F. Hesse

U. S. Transitman.

FINAL OATHS OF ~~DEPUTY~~ SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

BOOK 2270

A list of the names of the individuals employed by John P. Hesse
Pransituan, United States ~~Deputy~~ Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the
subdivision lines of Tp 15 N. Rg. 13 W.
showing the respective capacities in which they acted:

A. E. Lyon Chainman.

J. H. Bates Chainman.

R. L. Bates Moundman.

Moundman.

Ed. Brockway Axman.

J. P. Ellis Axman.

L. C. Flanagan Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John P. Hesse
Pransituan, United States ~~Deputy~~ Surveyor, in surveying all those parts or portions of the subdivision lines of Tp 15 N. Rg. 13 W.

of the Gila and
Salt River meridian, Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Arizona

A. E. Lyon Chainman.

J. H. Bates Chainman.

R. L. Bates Moundman.

Moundman.

J. P. Ellis Axman.

Ed. Brockway Axman.

L. C. Flanagan Flagman.

Subscribed and sworn to before me this 3rd
day of May, 1911



John P. Hesse
U. S. Pransituan

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John J. Kesse ^{Transitman} United States Deputy Surveyor, do solemnly swear that, in pursuance of ^{instructions} ~~contract~~ received from Frank D. Ogall United States Surveyor General for Arizona, bearing date of the 25th day of August, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity 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 S 157. R 13W.

S & S R of the _____ meridian, in the Territory of Arizona, 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 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John J. Kesse
United States Deputy Surveyor.
^{Transitman}

Subscribed by said John J. Kesse, and sworn to before me }
this 6th day of June, 1911

Frank D. Ogall
U.S. Dep. Genl. for Arizona



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz. January 4, 1912
The foregoing field notes of the survey of the fragmentary subdivision
S 157. R 13W S & S R Meridian, Arizona

executed by John J. Kesse, M.P. Transitman
under his ^{Transitman} ~~contract~~ No. 4, dated August 25, 1910, having been critically 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.