

FIELD NOTES

OF THE SURVEY OF THE

2293

East Boundary of T. 22 N. R. 13 W.
 ✓ East and West Boundaries of T. 24 N. R. 13 W.
 ✓ True South and West " " T. 27 N. R. 15 W.
 True North Boundary " " T. 27 N. R. 16 W.

2293

2293

Of the G. & O. R. Meridian,

In the State of Territory of Arizona

EXECUTED BY

Jesse B. Wright

In the capacity of U. S. Surveyor, under instructions dated Sept. 16, 1910,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 9, which were approved by the Commissioner of the General Land
 Office, Sept. 28, 1910, pursuant to authority contained in the Act of
 Congress dated July 27, 1911.

2293

Survey commenced Oct. 13, 1910

Survey completed July 1, 1911

2293

BOOK 2293

INDEX DIAGRAM.

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INDEX DIAGRAM.

BOOK 2293

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BOOK 2293

INDEX DIAGRAM.

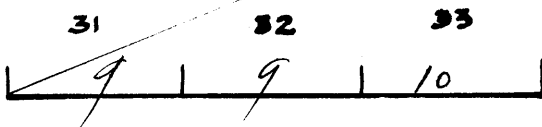
Township 27 N, Range 16 W

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S. Bdy. T27N.R15W



PRELIMINARY OATHS OF ASSISTANTS.

WE, Frank S. Crofoot, Hubert W. Worcester and Walter J. Thompson, Edgar M. Donnell

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

Township exterior, surveyed under Group 9

Frank S. Crofoot, Chainman.

Hubert W. Worcester, Chainman.

Subscribed and sworn to before me this 10th
day of Nov. Oct, 1910

Walter J. Thompson
Edgar M. Donnell
Jesse B. Wright
U. S. Surveyor



WE, James R. Smith, Bert Lyon, Rex Hoskins 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

Township exterior surveyed under Group 9

James R. Smith, Moundman.

Bert Lyon, Rex Hoskins, Moundman.

Subscribed and sworn to before me this 10th
day of Oct, 1910

Jesse B. Wright
U. S. Surveyor



WE, Edgar Morris and Geo. Wuetig

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

Township exterior surveyed under Group 9

Edgar Morris, Axman.

Geo. Wuetig, Axman.

Subscribed and sworn to before me this 10th
day of Oct, 1910

Jesse B. Wright
U. S. Surveyor



I, James Morrow and Gene Van Marter, 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

Township exterior surveyed under Group 9

James Morrow
Gene Van Marter, Flagman.

Subscribed and sworn to before me this 10th
day of Oct., 1910

Jesse B. Wright
U. S. Surveyor



Chains.

Oct. 13, 1910.

At 7h a.m., l.m.t., at the cor. of Tps. 23 & 24 N., Rs. 12 & 13 W., as heretofore described, in Book A, Group 10.

I set off $7^{\circ}31'$ S. on the decl. arc, and $35^{\circ}25'$ N. on the lat. arc, and determine a true meridian with the solar.

Thence I run, as per instructions, North, between secs. 31 & 36.

Over very rough, broken mts. land, desc. through dense scrub oak, impracticable to transport iron posts.

20.00 Desc. prec. N. slope.

30.00 Wrights Canyon, wash, 150 lks. wide, course WSW.

small stream of permanent water, 5 lks. wide, 2 ins. deep.

32.00 Asc. prec. S. slope.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on loose shaly bluff.

50.00 Top of N. rim of canyon, brs. E. & W.

Set a granite stone $13 \times 8 \times 8$ ins., on bed-rock, in mound of stone for Witness cor. to $\frac{1}{4}$ sec. cor. marked W.C. $\frac{1}{4}$ on W. face, from which,

A cedar tree 10 ins. diam. brs. N. 40° E. 50 lks. dist., marked $\frac{1}{4}$ S. 31 W.C.B.T.

A Pinon tree 10 ins. diam. brs. S. $78^{\circ}35'$ W. 217 lks. dist., marked $\frac{1}{4}$ S. 36 W.C.B.T.

Thence over rolling mesa, through heavy cedar timber.

80.00 Set a granite stone $24 \times 15 \times 10$ ins. 18 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked with 1 notch on S. & 5 notches on N. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. from which,

A cedar tree 6 ins. diam. brs. N. $57\frac{1}{2}^{\circ}$ E. 8 lks. dist., marked T. 24 N., R. 12 W. S. 30 B.T.

A cedar tree 10 ins. diam. brs. S. 63° E. 68 lks. dist., marked T. 24 N., R. 12 W. S. 31 B.T.

A cedar tree 10 ins. diam. brs. S. $33\frac{1}{2}^{\circ}$ W. 107 lks. dist., marked T. 24 N., R. 13 W. S. 56 B.T.

A cedar tree 10 ins. diam. brs. N. $73\frac{1}{2}^{\circ}$ W. 166 lks. dist., marked T. 24 N., R. 13 W. S. 25 B.T.

Land, mts., rolling.

Soil, 2nd & 3rd rate, stony, gravelly.

Timber, some cedar.

Undergrowth, scattering pinon, scrub oak, cedar.

At this cor., at noon, I set off $7^{\circ}39'$ S. on the decl. arc, and observe the sun on the meridian.

The resulting latitude is $35^{\circ}26'$ N.

North, bet. secs. 25 & 30.

Over rolling, stony mesa, through heavy cedar timber.

40.00 Set a granite stone $24 \times 14 \times 10$ ins. 15 ins. in ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which

A cedar tree 14 ins. diam. brs. S. $22\frac{1}{2}^{\circ}$ E. 30 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.

A cedar tree 10 ins. diam. brs. N. $67\frac{1}{2}^{\circ}$ W. 22 lks. dist., marked $\frac{1}{4}$ S. 25 B.T. Descend.

57.60 Gulch 50 lks. wide, course NW., asc. SW. slope.

72.00 Stony spur, brs. NW. & SE., desc. N. slope.

80.00 Enter smoother country, over which a pack animal can travel, and transport the iron posts for corners.

Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,

T. 24 N. in N. half,

R. 12 W., S. 19 in NE.,

S. 30 in SE., and

S. 25 in SW., and

R. 13 W., S. 24 in NW. quadrants, and

raise a mound of stone 3 ft. base, 2 ft. high W. of cor., from which,

2. Chains.

- A cedar tree 12 ins. diam., brs. N. $1\frac{1}{2}^{\circ}$ E. 50 lks. dist.,
marked T. 24 N., R. 12 W. S. 19 B.T.
A cedar tree 14 ins. diam., brs. S. 5° E. 17 lks. dist.,
marked T. 24 N., R. 12 W. S. 30 B.T.
A cedar tree 14 ins. diam. brs. S. 39° W. 36 lks. dist.,
marked T. 24 N., R. 13 W. S. 25 B.T.
A cedar tree 8 ins. diam. brs. N. $80\frac{1}{2}^{\circ}$ W. 98 lks. dist.,
marked T. 24 N., R. 13 W. S. 24 B.T.

Land, rolling.

Soil, 3rd rate, stony.

Timber, some cedar, valuable for posts.

Undergrowth, scrub oak, cedar.

Oct. 13, 1910.

Oct. 14, 1910.

At 7h a.m., l.m.t., at the cor. of secs. 19, 24, 25 & 30,
I set off $7^{\circ}53\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}27'$ N. on the
lat. arc and determine a true meridian with the solar.

Thence I run,

North, bet. secs. 19 & 24.

Over mts. land, desc. through scattering cedar.

7.17 Road, brs. NE. & SW.

9.00 Telegraph line, Western Union, brs. NE. & SW. par. to R.R.

11.50 Truxton wash, 80 lks. wide, course SW..

12.17 Wire fence, brs. NE. & SW.

12.61 Middle of single track of Atchison Topeka & Santa Fe
Railroad, brs. S. $49^{\circ}33'$ W. & N. $49^{\circ}33'$ E.East end of bridge No. 479-B on said Railroad,
brs. S. $49^{\circ}33'$ W. 10.74 chs.

13.00 Postal Telegraph line, brs. NE. & SW.

14.60 Wire fence, brs. NE. & SW. asc. grad.

18.00 Rocky knoll, brs. E. & W.

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,S. $24\frac{1}{4}$ on W., and

S. 19 on E. half, and

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Asc. grad. over rolling land.

47.50 Road, brs. E. & W.

48.20 Wash 30 lks. wide, course WSW.

56.85 Wash, 20 lks. wide, course SW.

A rich flat, about 80 acres of fine sandy loam brs. W.
about 20 chs. to centre, extends N. & S.

75.30 Wash, 20 lks. wide, course SW.

80.00 Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in
the ground for cor. of secs. 13, 18, 19 & 24,

marked on brass cap,

T. 24 N. in N. half,

R. 12 W. S. 18 in NE.,

S. 19 in SE.,

S. 24 in SW., and

R. 13 W. S. 13 in NW. quadrants, and

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.,
from which,A cedar tree 12 ins. diam. brs. S. $69\frac{1}{4}^{\circ}$ E. 113 lks. dist.,
marked T. 24 N., R. 12 W. S. 19 B.T.

Land, rolling,

Soil, 2nd, 3rd & 4th rate.

No timber.

Undergrowth, scattering cedar, cacti. fair grazing.

At this cor. at noon, I set off $8^{\circ}1'$ S. on the
decl. arc, and observe the sun on the meridian.The resulting lat. is $35^{\circ}28'$ N.

Chains.

- North, bet. secs. 13 & 18.
Over rolling land, asc. grad. through scattering cedar.
- 2.16 Wash 20 lks. wide, course SSE.
- 33.00 Corral of T. J. Walters, brs. W. 5 chs. dist.
- 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,
S. 13 $\frac{1}{4}$ in W., and
S. 18 in E. half, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
A rich loamy draw is W. of line about 15 chs. wide, extending N. & S.
- 43.00 Leave draw to left, asc. grad.
- 80.00 Set an iron post, 3 ft. long 3 ins. diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
T. 24 N. in N. half,
R. 12 W. S. 7 in NE.,
S. 18 in SE.,
S. 13 in SW., and
R. 13 W. S. 12 in NW. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rolling.
Soil, 2nd & 3rd rate.
No timber.
Undergrowth, scattering cedar, cacti. Fair grazing.
-
- North, bet. secs. 7 & 12.
Over rolling land, asc. grad., through scattering cedar.
- 8.80 Cedar 14 ins. diam. on line,
- 40.00 Set an iron post 3 ft. long 3 ins. dia. 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap,
S. 12 $\frac{1}{4}$ in W., and
S. 7 in E. half, and
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 12 ins. diam. brs. S. $76\frac{1}{2}^{\circ}$ E. 264 lks. dist., marked $\frac{1}{4}$ S. 7 B.T.
- 45.50 Old road, brs. NE. & SW.
- 65.00 Top of flat spur, brs. SSE. & NNW., asc. grad. on same.
- 80.00 Set an iron post 3 ft. long 3 ins. diam. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked on brass cap,
T. 24 N. in N. half,
R. 12 W. S. 6 in NE.,
S. 7 in SE.,
S. 12 in SW., and
R. 13 W. S. 1 in NW. quadrants, and
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 10 ins. diam. brs. N. 49° E. 189 lks. dist., marked T. 24 N., R. 12 W. S. 6 B.T.
A cedar tree 12 ins. diam. brs. S. 24° E. 197 lks. dist., marked T. 24 N. R. 12 W. S. 7 B.T.
A cedar tree 12 ins. diam. brs. S. $8\frac{1}{2}^{\circ}$ W. 240 lks. dist., marked T. 24 N. R. 13 W. S. 12 B.T.
A cedar tree 10 ins. diam. brs. N. 49° W. 78 lks. dist., marked T. 24 N. R. 13 W. S. 1 B.T.
- Land, rolling.
Soil, 2nd & 3rd rate, gravelly.
No timber.
Undergrowth, scattering cedar, cacti. Good grazing.

Oct. 14, 1910.

Chains.

Nov. 5, 1910.

At 2h p.m., l.m.t., at the cor. of secs. 1, 6, 7 & 12,
I set off $15^{\circ}36'$ S. on the decl. arc, and $35^{\circ}30'$ N. on
the lat. arc, and determine a true meridian with the solar.

Thence I run,
North, bet. secs. 1 & 6.

Over heavily rolling land, asc. grad. through scattering
cedar.

37.60 Intersect South Boundary of the Hualapai Indian Reservation,
at point whence the $4\frac{1}{2}$ mile cor. on said line,
brs. East, 3.50 chs. dist., which is a limestone $14 \times 10 \times 8$
ins. above ground, marked and witnessed as described
by the Surveyor General.

At point of intersection, I

Set an iron post 3 ft. long, 3 ins. diam. 24 ins. in
the ground for closing cor. of Tps. 24 N., Rs. 12 & 13 W.,
marked on brass cap,

T. 24 N., in S. half,

C.C. in N. half, N. of center.,

H.I.R. in N. half,

R. 12 W. S. 6 in SE., and

R. 13 W. S. 1 in SW. quadrants,, and

Raise a mound of stone 4 ft. base, $2\frac{1}{2}$ ft. high S. of cor.
Land, rolling.

Soil, 2nd & 3rd rate, gravelly.

No timber.

Undergrowth, scattering cedar, cacti. Good grass.

Nov. 5, 1910.

General Description.

The south two miles of this line runs over a broken mesa,
well covered with cedar, and some pinon.

The soil on this line is in general gravelly, or stony,
and of but little value, except for grazing.

The land to the East of the line beyond the cor. of
secs. 19, 24, 25 & 30, is a broad rolling valley, covered
with a fine growth of native grass, and should be surveyed.

Jesse B. Wright
U.S. Surveyor

Chains

Oct. 31, 1910.

At the cor. of Tps. 23 & 24 N., Rs. 13 & 14 W. as recently re-established by me, desc. in Book A, Group 10; at 8h.0m.a.m.1.m.t.

I set off $13^{\circ}55'$ S. on the decl. arc, and $35^{\circ}25'$ N. on the lat. arc, and determined a true meridian with the solar.

Thence I run, as per instructions,

North, bet. secs. 31 & 36.

Over mts. land, asc. prec. stony SW. slope, over huge granite boulders.

- 4.00 Top of rocky spur, brs. WSW. & ENE. desc.
 15.00 Head of canyon SW., asc.
 30.00 Top of rocky spur, brs. W. & E. desc.
 33.00 Desc. prec. WNW. slope.
 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, S. $36\frac{1}{4}$ in W., and S. 31 in E. half, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 42.10 Head of Canyon, course WSW. asc.
 49.00 Canyon 100 ft. deep, 2 chs. wide, course WSW.
 67.23 Top of rocky spur, brs. SW. & N. asc. on same.
 75.00 Cross spur, thence along prec. W. slope.
 80.00 Mark cross on granite boulder in place 8x4x2 ft. above ground, with 1 notch on S. & 5 notches on N. of cross, for cor. of secs. 25, 30, 31 & 36, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high E. of cor., it being impracticable to build the mound west, owing to the nature of the surface at this point.

Land, rough and mountainous.

Soil, 3rd & 4th rate, barren, stony.

No timber.

Undergrowth, scattering cacti. palonegro.

I set a large flag on top of bluff of mesa, about $\frac{1}{4}$ mile E.

North, bet. secs. 25 & 30.

Over mts. land, along prec. W. slope.

- 2.10 S. rim of canyon, brs. SW. & NE., across which I cannot chain, neither can I measure a base line for triangulation, with sufficient accuracy, owing to the unusual rough nature of the land, therefore, I send a man ahead, with stadia rod, and take a stadia measurement of 10.47 chs., angle of elev. $14^{\circ}26'$, reducing measurement for this angle gives 9.82 chs. as correct horizontal distance to the stadia rod., which added to 2.10, chs., gives
 11.92 To top of N. rim of Canyon, brs. SW. & NE., Ascend .
 25.00 Top of high rocky spur, brs. SW. & NE. desc. prec.
 30.00 Canyon 150 ft. deep, course SW., asc. prec.
 36.30 N. rim of canyon, brs. SW. & NE. continue asc.
 40.00 Top of spur brs. SW. & NE.
 Set a volcanic stone 24x12x10 ins. 8 ins. in ground on bed-rock, in mound of stone, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
 A palonegro tree 10 ins. diam. brs. N. 17° E. 85 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.
 42.00 Desc. steep NW. slope.
 53.00 Rocky gulch 50 lks. wide, course WSW., asc. prec.
 59.60 N. rim of gulch, brs. W. & E.,
 64.00 Desc. prec.
 70.00 Gulch 50 lks. wide, course W., asc.
 76.00 Spur, brs. W. & E., desc.
 80.00 Mark cross on standing granite ledge, 2x2x1 ft. above ground for cor. of secs. 19, 24, 25 & 30, with 2 notches on S. & 4 notches on N. of cross, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rough mts. barren. Soil, 3rd rate, stony.
 No timber. Undergrowth, palonegro, scattering cacti.
 At this cor., at noon, I set off $14^{\circ}00'$ S. on the decl. arc, and observe the sun on the meridian.
 The resulting lat. is $35^{\circ}27'$ N.

Chains.

- North, bet. secs. 19 & 24.
Over very rough, mountainous land, desc. prec. NNW. slope.
- 10.00 Canyon 80 lks. wide, course WSW.
14.00 W. point of spur, brs. W. & E.
20.00 Spring in canyon 80 lks. wide, course SW.
32.70 Top of high rocky spur, brs. SW. & NE., desc. grad. along NW. slope.
40.00 Set a granite stone 30x12x8 ins. on bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
59.25 S. rim of canyon, desc. abrupt.
61.60 Canyon 150 lks. wide, 100 ft. deep, course SW., small stream of permanent water in same, from spring 8 chs. NE.
70.85 Top of N. rim, brs. SW. & NE., continue ascent prec. SW. slope.
80.00 Top of bluff, brs. E. & W.
Set a granite stone 24x10x10 ins. 6 ins. in ground on bed-rock, in mound of stone, for cor. of secs. 13, 18, 19 & 24, marked with 3 notches on N. & S. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, mts. very rough.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scattering palonegro, cacti.

Oct. 31, 1910.

Nov. 1, 1910.

- At 8h a.m., l.m.t. at the cor. of secs. 13, 18, 19 & 24, I set off $14^{\circ}15'S.$ on the decl. arc, and $35^{\circ}28'N.$ on the lat. arc, and determine a true meridian with the solar., Thence I run,
North, bet. secs. 13 & 18.
Over mts. land, asc. on spur.
- 14.00 Cross spur, brs. SW. & NE., thence along W. slope.
40.00 Set a granite stone 24x12x8 ins. 13 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
49.70 Foot of bluff, brs. E. & W. asc. abrupt.
54.60 Top of bluff, brs. E. & W., asc.
59.00 Top of highest rocky spur, from mesa, 3,000 ft. above the valley to the West, brs. SW. & NE.
Desc. NW. slope, through scattering cedar.
80.00 Set a volcanic stone 24x8x8 ins. 18 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked with 4 notches on S. & 2 notches on N. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor., from which,
A cedar tree 14 ins. diam. brs. N. $10^{\circ}E.$ 68 lks. dist., marked T. 24 N., R. 13 W. S. 7 B.T.
A cedar tree 6 ins. diam. brs. S. $23^{\circ}W.$ 88 lks. dist., marked T. 24 N. R. 14 W. S. 13 B.T.
No other bearings available.
Land, mts.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scattering cedar, scrub oak, cacti.
At this cor. at noon, I set off $14^{\circ}19'S.$ on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}29' N.$

West Boundary T. 24 N., R. 13 W.

Chain.

- North, bet. secs. 7 & 12.
 Over mts. broken, stony land, through dense cedar.
- 3.45 Gulch, 80 lks. wide, course SW.
 - 4.00 Asc. in gulch from N.
 - 16.10 Leave gulch to W. of line, asc. SW. slope.
 - 40.00 Set a volcanic stone 24x14x10 ins. on bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and from which,
 - A cedar tree 16 ins. diam. brs. N.13°E. 123 lks. dist., marked $\frac{1}{4}$ S. 7 B.T.
 - A cedar tree 16 ins. diam. brs. S.17 $\frac{1}{2}$ °W. 95 lks. dist., marked $\frac{1}{4}$ S.12 B.T.
 - 48.35 Top of spur, brs: ESE. & WNW., desc.
 - 52.00 Gulch 50 lks. wide, course ESE., turns S. at 12 chs. E. Asc.
 - 64.25 Spur, brs. E. & W., desc. Leave cedar, brs. E. & W.
 - 80.00 Set a sandstone 20x12x10 ins. 15 ins. in the ground for cor. of secs. 1,6,7 & 12, marked with 5 notches on S. & 1 notch on N. edges, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. No bearings available.
- Land, mts., broken.
 Soil, 3rd rate, stony.
 No timber.
 Undergrowth, scattering cedar, palonegro.

- North, bet. secs. 1 & 6.
 Over mts. land, desc. through scattering cedar.
- 5.00 Gulch 30 lks. wide, course SE.
 - 20.00 Top of ridge, from divide, brs. WSW. & ENE., desc.
 - 25.00 Head of rocky gulch, course W.
 - 40.00 Thence along W. rim of mesa. asc.
 Top of rim.
 Set a granite stone 24x10x10 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor., from which,
 - A cedar tree 10 ins. diam. brs. N.3°E. 125 lks. dist., marked $\frac{1}{4}$ S. 6 B.T.
 - A cedar tree 12 ins. diam. brs. West, 86 lks. dist., marked $\frac{1}{4}$ S. 1 B.T.
 - 42.80 Spur, brs. W. & E., desc. thence along broken W. slope
 - 50.50 Asc. grad.
 - 62.00 Top of divide, brs. SSE. & NNW., thence along stony, broken East, crest of divide.
 - 75.00 Desc.
 - 80.40 Intersect 6th Standard Parallel N. at a point 24.47 chs. E. of the Standard cor. of Tps. 25 N., Rs. 13 & 14 W., recently established by me and heretofore described, Book B, Group 10.
 Set a granite stone 30x15x12 ins. 24 ins. in ground for closing cor. of Tps. 24 N., Rs. 13 & 14 W., marked C.C. on S., with 6 grooves on S., E., & W. faces, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high S. of cor. from which,
 - A pinon tree 8 ins. diam., brs. S.10 $\frac{1}{2}$ °E. 110 lks. dist., marked T. 24 N., R. 13 W. S. 6 C.C. B.T.
 - A cedar tree 12 ins. diam. brs. S.26 $\frac{1}{2}$ °W. 52 lks. dist., marked T. 24 N., R. 14 W. S. 1 C.C. B.T.
- Land, mts. Soil, 3rd rate, stony.
 No timber. Undergrowth, cedar, pinon.

Nov. 1, 1910.

General Description.

The W. Bdy. of T. 24 N., R. 13 W. runs along the broken West slope of a high, rough mesa. The land along this line is worthless, being in general barren granite ledges and boulders. This line traverses country over which a pack animal cannot travel, therefore it is impracticable to set the iron posts for corners on this line.
 (Note) The section corners on this line were later changed to refer to T. 24 N., R. 13 W. only.

Jesse B. Wright U.S. Surveyor.

Boundaries of
T. 24 N., R. 13 W.

Latitudes, departures, and closing errors.

Line Designated.	True bearing.	Distance.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
South Bdy. T.24 N.R.13 W.	N. 87° 14' E.	37.04	1.30		37.00	
	East,	40.35			40.35	
	N. 89° 9' E.	40.00	.60		40.00	
	S. 89° 9' E.	40.50		.60	40.50	
	S. 39° 34' E.	80.10		.60	80.10	
	S. 83° 18' E.	40.12		1.20	40.10	
	S. 89° 51' E.	40.00		.11	40.00	
	S. 83° 34' E.	39.96		1.00	39.95	
	N. 89° 25' E.	40.70	.42		40.70	
	S. 89° 29' E.	40.82		.36	40.82	
	N. 83° 33' E.	40.14	.96		40.13	
East Bdy.	North,	437.60	437.60			
Hual. Ind. Res.	West,	36.50				36.50
" " "	N. 40° W.	55.13	42.23			35.44
North Bdy.	West,	405.01				405.01
West. Bdy.	South,	430.40		430.40		
	Convergency,52
Totals,			483.61	484.27	479.65	477.47
				483.61	477.47	
Error in Lat.,66	2.18	
Error in Dep.,66		2.18

Jesse B. Wright
U.S. Surveyor.

Chains.

Nov. 25, 1910.

Inasmuch as the East Boundary, and the East portion of the North Boundary of T. 26 N., R. 15 W. runs over land so rough and mountainous as to be impracticable to survey by the ordinary methods of surveying public lands, and upon my reporting this fact to the U.S. Surveyor General, and having been issued supplemental instructions relative to certain portions of the land lying in Tps. 25, 26, & 27 N., Rs. 15 & 16 W., permitting me to eliminate from my survey the extremely mountainous and unsurveyable lands, I begin the survey of the North Boundary of T. 26 N., R. 15 W. at the cor. of Tps. 26 & 27 N., Rs. 15 & 16 W.; therefore,

At 8h a.m., l.m.t., at the cor. of Tps. 26 & 27 N., Rs. 15 & 16 W., I set off $20^{\circ}37'1''$ S. on the decl. arc, and $35^{\circ}41'$ N. on the lat. arc, and determine a true meridian with the solar.

Thence I run, parallel to S. bdy. of Tp., S. $89^{\circ}53'$ E., bet. secs. 31 & 6.

Over gently rolling land, asc. grad., through scattering greasewood, cacti. Good native grass.

25.15 Wash, 10 lks. wide, course SW. Allowing 52 lks. convergency, at

39.33 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. 31 in N. and
S. 6 in S. half,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

79.33 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 5, 6, 31 & 32, marked on brass cap,

T. 27 N. in N.,
T. 26 N. in S., and
R. 15 W. in W. half,

S. 31 in NW., S. 32 in NE., S. 5 in SE., and S. 6 in SW. quadrants, and

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Land, gently rolling, drains WSW.

Soil, 2nd & 3rd rate, sandy, gravelly, stony.

No timber.

Undergrowth, greasewood, mesquite, cacti. Fair grazing.

S. $89^{\circ}53'$ E., bet. secs. 5 & 32.

Over gently rolling land, asc. grad., through dense greasewood, scattering cacti. good native grass.

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. 32 in N., and
S. 5 in S. half,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

47.50 Old road, brs. SSE. & NNW.

52.50 Old road, brs. S. & N.

54.80 Foot of mts., brs. NNW. & SE., asc. steep, leave valley.

80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 4, 5, 32 & 33,

marked on brass cap,

T. 27 N. in N.,
T. 26 N. in S., and
R. 15 W. in W. half,

S. 32 in NW., S. 33 in NE., S. 4 in SE., and S. 5 in SW. quadrants,

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Land, rolling mts. Soil, 2nd & 3rd rate, gravelly, stony.

No timber.

Undergrowth, greasewood, cacti, mesquite, fair grass.

At this cor. at noon, clouds obscure the sun.

Impossible to observe the latitude.

Chains
S. 39° 58' E., bet. secs. 4 & 33.
Over, mts. land, asc. steep.
10.00 Top of rocky hill, brs. WNW. & ESE., desc.
14.20 Desc. prec. NE. slope.
30.00 Foot of descent, thence along N. slope.
40.00 Impracticable to set an iron post.
Set a granite stone 30x24x10 ins., on bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
Asc. from cor.
48.00 Top of rise, desc., along N. slope.
60.00 Foot of slope, arroyo, 30 lks. wide, course NNW.
Asc. prec.
80.00 On top of hill, brs. NNW. & SSE.
Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 & 34, marked on brass cap,
T. 27 N. in N.,
T. 26 N. in S., and
R. 15 W. in W. half,
S. 33 in NW., S. 34 in NE., S. 3 in SE., and S. 4 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, rough, mts.
Soil, 3rd rate, stony.
No timber.
Undergrowth, scattering mesquite, cacti, greasewood.
Beyond this cor. the land rises over a succession of bluffs to the East, over which it is impracticable to measure a line by the ordinary means of surveying, as some points along the line are inaccessible.
Therefore I discontinue the survey of this line.

Nov. 25, 1910.

Jesse B. Wright
U.S. Surveyor.

12. Frac. East boundary of Township 27 North, Range 16 West.

Chains.

Nov. 28, 1910.
 At 8h.a.m., l.m.t., at cor. of Tps. 26 and 27 N., Rs. 15 and 16 W., as recently established by me and heretofore described in Book A, Group 10, I set off $21^{\circ}11'S$ on the decl. arc, and $35^{\circ}41'N$ on the lat. arc, and determine a true meridian with the solar.

Thence I run,
 North, on range line, bet. secs. 31 and 36.
 Over gently rolling land, across broad broken draw, drainage WSW., through dense greasewood; fair grass.

1.93 Wash, 30 lks. wide, course W.
 22.56 Stony wash, 100 lks. wide, course W.
 37.72 Wash, 15 lks. wide, course WSW.
 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 36 in W., and S 31 in E. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

51.50 Wash, 15 lks. wide, course W.
 59.45 Wash, 25 lks. wide, course WSW.
 60.95 Wash, 30 lks. wide, course W.
 67.07 Wash, 50 lks. wide, course W.
 71.52 Wash, 20 lks. wide, course W.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked on brass cap,
 T 27 N in N. half,
 R 16 W S 25 in NW.,
 R 15 W S 30 in NE.,
 S 31 in SE, and
 S 36 in SW. quadrants; 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.
 Land, gently rolling, broken.
 Soil, sandy, gravelly, stony, 2nd rate.
 No timber.
 Undergrowth, greasewood, cacti; fair grass.

North, bet. secs. 25 and 30. (wood and cacti.)
 Over rolling, broken land; ascend gradually through grease-
 Dim road, brs. ENE. and WSW.

6.30 Wash, 50 lks. wide, course WSW.
 12.50 Wash, 80 lks. wide, course WSW.
 16.00 Wash, 80 lks. wide, course WSW.
 28.70 Wash, 15 lks. wide, course W.
 35.80 Wash, 80 lks. wide, course W.
 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; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

51.50 Wash, 30 lks. wide, course WSW.
 58.47 Road, brs. E. and W. from Clay Springs to Valley.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30, marked on brass cap,
 T 27 N in N. half;
 R 16 W S 24 in NW.,
 R 15 W S 19 in NE.,
 S 30 in SE., and
 S 25 in SW. quadrants; and raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, rolling, broken.
 Soil, 2nd rate, gravelly, stony.
 Undergrowth, greasewood, sage brush, cacti. Fair grazing.

Chains.

North, bet. secs. 19 & 24.
 Over gently rolling, broken land, through scattering sage brush, greasewood, and cacti. Fair grass.

2.86 Wash 80 lks. wide, course WSW.
 28.00 Wash 50 lks. wide, course W.
 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. 24 in W., and
 S. 19 in E. half,
 dig pits 13x13x12 ins. N. & S. of cor. 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 At this cor. at noon, clouds obscure the sun.
 impracticable to observe the latitude.

58.00 Asc. grad. in sand wash, course SSW.
 62.00 Leave wash to E.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,
 T. 27 N. in N. half,
 R. 16 W. S. 13 in NW.,
 R. 15 W. S. 13 in NE.,
 S. 19 in SE., and
 S. 24 in SW. quadrants,
 raise a mound of stone 2 ft. high, 3 ft. base, W. of cor.
 Land, rolling, broken.
 Soil, 2nd rate, sandy, gravelly, granite formation.
 Undergrowth, greasewood, sage brush, cacti. Fair grass.

North, bet. secs. 13 & 18.
 over rolling land, asc. grad., through scattering greasewood, dense sage brush, soil, granite gravel.

18.00 Foot of granite spur, brs. SW. & NE., asc. steep.
 26.00 Top of granite spur, brs. SW. & NE. point is 4 chs. to SW.
 28.00 Desc. prec. NW. slope.
 32.00 Foot of slope, brs. SW. & NE. asc. grad.
 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. 13 in W., and
 S. 13 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

41.50 Asc. prec. SW. slope, barren granite boulders.
 43.10 Top of spur, brs. SW. & NE. point brs. 4 chs. to SW.
 Desc. steep.
 59.00 Gulch 30 lks. wide, course SW., heads about $\frac{1}{2}$ mile to NE., against a bluff 400 ft. high. Leave valley, and
 Asc. steep, barren S. slope, over large granite boulders.

70.00 Asc. prec. S. slope.
 80.00 Set an iron post 3 ft. long, 3 ins. diam. on bed-rock, in crevice, in mound of stone, for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
 T. 27 N. in N. half,
 R. 16 W. S. 12 in NW.,
 R. 15 W. S. 7 in NE.,
 S. 13 in SE., and
 S. 13 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling, mts., broken.
 Soil, 2nd 3rd & 4th rate, sandy, gravelly, stony.
 Undergrowth, greasewood, mesquite, cacti. Fair grass in valley.
 Beyond this corner the land to the North rises in a succession of bluffs, and barren granite ledges, over which it is impracticable to chain. The land to the North, being barren and worthless, I discontinue the survey of this line, in accordance with supplemental instructions.

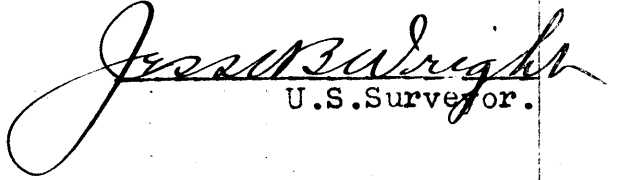
14

General Description.

The East Boundary of T. 27 N., R. 16 W. , runs across a broken , rolling country for the south 3 mile, then ascends over granite gravel and boulders.

The soil is mostly a granite gravel , and covered with a fair growth of native grass, greasewood, cacti and sage brush.

There is no timber or water on this line.


U.S. Surveyor.

Chains.

Nov. 29, 1910.

Inasmuch as upon investigation, I find that the East part of the North boundary of T. 27 N., R. 16 W. runs over land so rough and mountainous as to be impracticable to survey, in order to close the frac. subdivision of this township, I proceed as follows:

At 8h a.m., l.m.t., at cor. of Tps. 27 & 28 N., Rs. 16 & 17 W., as recently established by me and heretofore described,

IN BOOK A, GROUP 10
I set off 21° 21' S. on the decl. arc, and 35° 46' N. on the lat. arc, and determine a true meridian with the solar. Thence I run, parallel to S. bdy. of Tp.,

S. 39° 57' E., bet. secs. 6 & 31.

Over gently rolling land, through scattering tesselata, sage brush, cacti. Good native grass.

14.70 Wash 70 lks. wide, course WSW.

27.22 Wash 50 lks. wide, course SW.

35.08 Wash, 120 lks. wide, course SW.

Allowing 52 lks. for convergency, at

38.70 Set an iron post 3 ft. long, 1 in. in dian. 24 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S. 31 in N., and S. 6 in S. half,

dig pits 13x13x12 ins. E. & W. of cor., 3 ft. dist., and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.

48.00 Foot of steep stony SW. slope, brs. NNW. & SSE., asc. steep. SW. slope, over barren granite boulders, leave valley.

58.00 Top of SW. slope, thence along S. slope, of ridge.

78.70 Impracticable to set an iron post,

Set a granite stone 30x24x10 ins. on bed-rock, in mound of stone for cor. of secs. 5, 6, 31 & 32, marked with 5 notches on E. and 1 notch on W. edges, and raise a mound of stone 3 ft. base, 2 ft. high W. of cor.

Land, rolling, mts.

Soil, 3rd rate, gravelly, stony.

No timber.

Undergrowth, greasewood, tesselata, cacti, Palonegro.

Good grass in valley.

S. 39° 57' E., bet. secs. 5 & 32.

Over very rough, mts. land, along broken, stony S. slope over rough granite boulders.

40.00 Set a granite stone 24x10x10 ins., on bed-rock, in mound of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 3 ft. base, 2 ft. high N. of cor.

60.00 Cross main spur, brs. WSW. and ENE., desc. SE. slope.

80.00 Set a granite stone 24 x 12 x 12 ins., on bed-rock, in mound of stone for cor. of secs. 4, 5, 32 & 33, marked with 4 notches on E. & 2 notches on W. edges, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.

Land, mts. very rough.

Soil, 4th rate, barren, stony.

No timber.

Undergrowth, scattering cacti.

At this cor., at noon, I set 21° 25' S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is 35° 46' N.

Chains.

S. 89°57' E., bet. secs. 4 & 33.
 Over very rough mts. land, along broken S. slope. desc.
 20.00 Head of gulch 50 lks. wide, course SSW. asc.
 35.00 Top of long granite ridge, brs. SW. & NE., desc.
 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.33 in N. and
 S. 4 in S. half, and
 raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor.
 46.00 Foot of main slope brs. NNE. & SSW. thence across broken
 draw, near foot of S. slope.
 55.00 Wash 150 lks. wide, course SSW.
 72.00 Dim old read, brs. SSW. & NNE.
 74.00 Wash, 50 lks. wide, course SSW.
 79.00 Wash, 50 lks. wide, course SW., asc.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 3, 4, 33 & 34,
 marked on brass cap,
 T. 23 N. in N. half,
 T. 27 N. in S. half, and
 S. 33 in NW., S. 34 in NE.; S. 3 in SE. and S. 4 in SW.
 quadrants, and
 raise a mound of stone 3 ft. base, 2 ft. high W. of cor.
 Land, mts., broken.
 Soil, 3rd & 4th rate, barren, stony.
 No timber.
 Undergrowth, sdattering cacti, tesseta, palonegro.
 Beyond this corner, the land to the East rises over a
 succession of bluffs and ridges over which it is
 impracticable to chain.
 Therefore at this point, I discontinue the survey of
 this line.

Nov. 29, 1910.

Boundaries of T. 27 N., R. 15 W.
 Latitudes, departures and closing errors.

Line desig- nated.	True Bearing.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
Frac. S. Bdy.	N. 89°58' W.	239.33	.15			239.33
" W. "	North,	160.00	160.00			
Sub. lines.	S. 89°57' E.	79.16		.07	79.16	
"	S. 89°58' E.	80.04		.05	80.04	
"	S. 89°58' E.	80.10		.05	80.10	
"	S. 0°2' E.	160.00		160.00	.10	
Convergency,					.08	
Totals,			160.15	160.17	239.48	239.33
				160.15	239.33	
Error in lat.				.02	.15	
						Error in dep.

Cresswell
 U. S. Surveyor.

East Boundary of T. 22 N., R. 13 W.

Chains.

Jan. 30, 1911.

At 8h a.m., l.m.t., at cor. of Tps. 21 & 22 N., Rs. 12 & 13 W. Re-established by me and heretofore described, Book A, Group 10.

I set off $17^{\circ}47\frac{1}{2}'$ S. on the decl. arc, and $35^{\circ}15'$ N. on the lat. arc, and determine a true meridian with the solar.

Thence I run, as per instructions,

North, on range line, bet. secs. 31 & 36.

Over rolling land, drains to W.

- 8.00 Enter scattering cedar, brs. E. & W.
 12.55 Wash, 20 lks. wide, course WSW.
 21.71 Wash, 20 lks. wide, course WSW. asc. grad.
 40.00 Top of rise, brs. WSW. & ENE. desc. grad.
 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. 36 in W., and
 S. 31 in E. half; from which,
 A cedar tree 10 ins. diam. brs. N. 55° E. 56 lks. dist., marked $\frac{1}{4}$ S. 31 B.T.
 A cedar tree 10 ins. diam. brs. S. 39° W. 205 lks. dist., marked $\frac{1}{4}$ S. 36 B.T.
 57.20 Wash, 40 lks. wide, course WSW. asc. grad.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 25, 30, 31 & 36, marked on brass cap,
 T. 21 N. in N. half,
 R. 13 W. S. 25 in NW.,
 R. 12 W. S. 30 in NE.,
 S. 31 in SE., and
 S. 36 in SW. quadrants; from which,
 A cedar tree 10 ins. diam. brs. N. 40° E. 50 lks. dist., marked T. 22 N., R. 12 W. S. 30 B.T.
 A cedar tree 6 ins. diam. brs. S. 53° E. 44 lks. dist., marked T. 22 N., R. 12 W. S. 31 B.T.
 A cedar tree 6 ins. diam. brs. S. $66\frac{1}{4}^{\circ}$ W. 88 lks. dist., marked T. 22 N., R. 13 W. S. 36 B.T.
 A cedar tree 6 ins. diam. brs. N. 18° W. 83 lks. dist., marked T. 22 N., R. 13 W. S. 25 B.T.
 Land, rolling. Soil, 3rd rate, gravelly, sandy.
 Scattering cedar, palonegro, cacti. Good native grass.

North, bet. secs. 25 & 30.

Over rolling land, through dense cedar.

- 11.65 Wash, 30 lks. wide, course W.
 14.10 Wash, 20 lks. wide, course SW.
 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 cedar tree 10 ins. diam. brs. S. 3° E. 36 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.
 A cedar tree 18 ins. diam. brs. S. $27\frac{3}{4}^{\circ}$ W. 120 lks. dist., marked $\frac{1}{4}$ S. 25 B.T.
 55.07 Wash 20 lks. wide, course WSW. Leave dense cedar. E. & W.
 65.15 Wash, 20 lks. wide, course SW.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 & 30, marked on brass cap,
 T. 22 N. in N. half,
 R. 13 W. S. 24 in NW.,
 R. 12 W. S. 19 in NE.,
 S. 30 in SE., and
 S. 25 in SW. quadrants; from which,
 A cedar tree 10 ins. diam. brs. S. $46\frac{1}{2}^{\circ}$ W. 238 lks. dist., marked T. 22 N., R. 13 W. S. 25 B.T.
 No other bearings available. Pits impracticable.
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 Land, rolling.
 Soil, 3rd rate, sandy, gravelly.
 Cedar, palonegro, cacti. Good native grass.

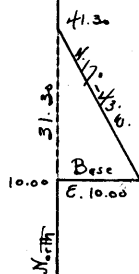
Chains.

- North, bet. secs. 19 & 24.
Over rolling land, through scattering cedar.
- 22.35 Wash, 30 lks. wide, course WSW.
39.60 Wash, 20 lks. wide, course SW.
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. 24 in W. and
S. 19 in E. half; from which,
A cedar tree 8 ins. diam. brs. S. $43\frac{1}{2}^{\circ}$ E. 40 lks. dist., marked $\frac{1}{4}$ S. 19 B.T.
A cedar tree 10 ins. diam. brs. S. 86° W. 98 lks. dist., marked $\frac{1}{4}$ S. 24 B.T.
- 52.90 Wash, 30 lks. wide, course W.
55.60 Dim road, brs. NW. & SE., leave cedar, brs. E. & W., enter palonegro and cacti.
67.30 Wash, 20 lks. wide, course WSW.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 13, 18, 19 & 24, marked on brass cap,
T. 22 N. in N. half,
R. 13 W. S. 13 in NW.,
R. 12 W. S. 18 in NE.,
S. 19 in SE., and
S. 24 in SW. quadrants,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
No bearings available. Pits impracticable.
Land, rolling. Soil, 3rd rate, sandy, gravelly, loose.
Cedar, palonegro, cacti. Good native grass.
At this cor. at noon, I set off $17^{\circ}46\frac{1}{2}'$ S. on the decl. arc, and observe the sun on the meridian.
The resulting lat. is $35^{\circ}17'$ N. ✓
-
- North, bet. secs. 13 & 18.
Over mts. land, asc. stony SW. slope.
- 8.00 Top of stony spur, jutting shale, brs. SW. & NE., desc.
27.50 Gulch, 50 lks. wide, course SW., asc. steep SE. slope.
39.10 Top of ridge, brs. E. & W., low saddle in same 4 chs. E. butte on same about 20 chs. to ESE. D. and W. butte on same about 12 chs. to WSW., desc. through scattering cedar.
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. 13 in W., and
S. 18 in E. half,
raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
66.00 Wash, 50 lks. wide, course W., foot of slope, brs. W. & E. Enter dense cedar and palonegro., asc. grad.
66.71 Dim road, brs. E. & W.
78.90 Wash, 40 lks. wide, course WSW., asc.
80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in the ground for cor. of secs. 7, 12, 13 & 18, marked on brass cap,
T. 22 N. in N. half,
R. 13 W. S. 12 in NW.,
R. 12 W. S. 7 in NE.,
S. 18 in SE., and
S. 13 in SW. quadrants; from which,
A cedar tree 8 ins. diam. brs. S. $27\frac{1}{2}^{\circ}$ E. 140 lks. dist., marked T. 22 N., R. 12 W. S. 18 B.T.
A cedar tree 6 ins. diam. brs. S. $38\frac{1}{2}^{\circ}$ W. 76 lks. dist., marked T. 22 N., R. 13 W. S. 12 B.T.
No other bearings available. Pits impracticable.
Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
Land, mts., broken.
Soil, 3rd rate, stony, gravelly.
No timber.
Undergrowth, cedar, palonegro, tesseta, cacti. Sparse grass.
Jan. 30, 1911.

East Boundary of T. 22 N., R. 13 W.

Chains.

- Feb. 1, 1911.
 At 8h a.m., 1.m.t., at the cor. of secs. 7, 12, 13 & 18,
 I set off $17^{\circ}14'$ S. on the decl. arc, and $35^{\circ}18'$ N. on the
 lat. arc, and determine a true meridian with the solar.
 Thence I run,
 North, bet. secs. 7 & 12:
 Over mts. land, asc: grad:, through dense cedar and
 palonegro, soil, gravelly and stony.
- 17.75 Gulch, 20 lks. wide, course WSW.
 31.50 Gulch 40 lks. wide, course SW., leave cedar, brs. E. & W.,
 asc. steep S. slope.
 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. 12 in W., and
 S. 7 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 61.80 Top of ridge, brs. WSW. & ENE., ends about 60 chs. to SW.
 desc. steep NW. slope.
 77.10 Gulch 80 lks. wide, course WSW. asc.
 80.00 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for cor. of secs. 1, 6, 7 & 12,
 marked on brass cap,
 T. 22 N. in N. half, and
 R. 13 W. S. 1 in NW.,
 R. 12 W. S. 6 in NE.,
 S. 7 in SE., and
 S. 12 in SW. quadrants,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 Land, mts., broken.
 Soil, 3rd rate, stony, gravelly.
 Cedar, palonegro, cacti. Sparse grass.
-
- North, bet. secs. 1 & 6.
 Over mts. land, asc.
- 10.00 Flat spur, near SW point, brs. SW. & NE. set flag. desc.
 16.00 Gulch, 50 lks. wide, course SSW.
 From this point the land ascends very steeply over
 a succession of rocky ledges and boulders, over
 which it is impracticable to chain, so I return to my
 flag set at 10 chs. N. of sec. cor., and with my
 instrument set at this point, I send a man ahead and
 place a flag on line, near the top of the bluff.
 Then I measure a base line of 10 chs. to the East, from
 which point my flag to the north brs. N. $17^{\circ}43'$ W. ;
 The angle subtended is therefore $72^{\circ}17'$.
 The distance from my station to the flag is therefore
 $10.00 \text{ chs.} \times \text{tang. } 72^{\circ}17' \text{ or } 10.00 \times 3.130 = 31.30 \text{ chs.},$
 which added to the distance to my station, 10.00 chs.
 gives ,
 41.30 To flag on line near top of bluff, I measure South, 1.30
 chs. from this flag and at
 40.00 Set an iron post 3 ft. long, 1 in. in diam. 10 ins. in the
 ground to bed-rock, in mound of stone, for $\frac{1}{4}$ sec. cor.,
 marked on brass cap,
 $\frac{1}{4}$ S. 1 in W., and
 S. 6 in E. half,
 raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
 No bearings available. Pits impracticable.
 Asc. prec. from cor.
 50.00 Top of SW. rim of bluff, 1,000 ft. above valley, brs. NW.
 & SE., asc.
 52.00 Top of sharp dividing ridge, brs. WNW. & ESE., desc. through
 dense cedar.
 68.00 Gulch, 50 lks. wide, course NW., asc. SW. slope.
 72.00 Top of rise, and along W. slope.
 80.00 Build mound of stone on line, and continue measurement
 north.



Chains.

90.50 Fall 34.00 chs. East of the SE. cor. of Tp. 23 N., R. 13 W.,
 Set an iron post 3 ft. long, 3 ins. in diam. 24 ins. in
 the ground for closing cor. of Tps. 22 N., Rs. 12 & 13 W.,
 marked on brass cap,
 C. C. S. of centre,
 T. 23 N., R. 13 W. S. 36, R. 12 W. S. 31 in N.,
 and T. 22 N. in S. half,
~~R. 13 W. S. 36 in NW.,~~
~~R. 12 W. S. 31 in NE.,~~
 R. 12 W. S. 6 in SE., and
 R. 13 W. S. 1 in SW. quadrants,
 raise a mound of stone 4 ft. base, 3 ft. high S. of cor.
 No bearings available. Pits impracticable.
 Land, mts., rough.
 Soil, 3rd & 4th rate, gravelly, stony.
 No timber.
 Undergrowth, cedar, pinon, palonegro, cacti. Sparse grass.

For the purpose of connecting topography, from the
 closing corner as above described, I run,
 West, on N. bdy. sec. 1,
 Over rough, mts. land, desc.
 5.00 Gulch, 50 lks. wide, course NW., asc.
 22.00 Top of ridge, brs. NW. & SE., desc.
 34.00 To SE. cor. of Tp. 23 N., R. 13 W., which is a granite
 stone 12x8x8 ins. above ground, marked and witnessed
 as described by the Surveyor General.
 I change the markings and accessories of this cor. so
 that it refers to Tps. 23 N., Rs. 12 & 13 W., only.

Feb. 1, 1911.

General Description.

The East Boundary of T. 22 N., R. 13 W., runs over a
 rolling, or somewhat broken country for four miles, and
 the last two miles to the north, it is very rough and
 worthless.
 The soil in the smoother parts is a loose gravelly or
 sandy texture, fertile in places, and is covered with
 a fine growth of native grass.
 There is some cedar along the line, but none valuable
 for timber.
 There is no water along or near this line.
 To the East the land is rolling or mts. At a distance
 of four or five miles East of the SE. cor. of Tp., it
 reaches the rough mountains. The SW. $\frac{1}{4}$ of T. 22 N.,
 R. 12 W. should be subdivided.

Joseph B. Wright
 U. S. Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by

Jesse B. Wright

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

Township exterior surveyed under Group 9

showing the respective capacities in which they acted:

Frank L Crofoot, Herbert Worcester, Chairman.

Walter J Thompson, Edgar M Darnall, Chairman.

James R Smith, Moundman.

Bart Tyson, Rex Haskins, Moundman.

Edgar Morris, Axman.

Yas Wuetig, Axman.

James Morrow, Louie Van Watter, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Jesse B. Wright

United States Deputy Surveyor, in surveying all

those parts or portions of the

Township exterior surveyed under Group 9

of the *Lead*

Salt River Base 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

Frank L Crofoot, Herbert Worcester, Chairman.

Edgar M. Darnall, Walter J. Thompson, Chairman.

James R. Smith, Moundman.

Bart Tyson, Rex Haskins, Moundman.

Axman.

Yas Wuetig, Axman.

James Morrow, Louie Van Watter, Flagman.

Subscribed and sworn to before me this *18th*

day of *May*, 1911

Jesse B. Wright
U. S. Surveyor



22
BOOK 2293

FINAL OATH OF UNITED STATES ~~DEPUTY~~ SURVEYOR.

I, Jesse B Wright United States ~~Deputy~~ Surveyor, do solemnly swear that, in pursuance of a ^{instructions} contract received from Frank S Ingalls United States Surveyor General for Arizona, bearing date of the 16th day of September, 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 East Bdy. of T 22 N R 13 W, the East and West Bdrs. of T 24 N. R 13 W. the four South & West Bdrs. of T 27 N. R 15 W. and four North Bdy. of T 27 N R 17 W,
of the G.S.R. 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.

Jesse B Wright
United States ~~Deputy~~ Surveyor.

Subscribed by said Jesse B Wright, and sworn to before me }
this 7th day of August, 1911

Frank S Ingalls
U.S. Sur. Gen. for Arizona.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix Ariz. March 15, 1912.

The foregoing field notes of the survey of the East Bdy. of T 22 N R 13 W; the East and West Bdrs. of T 24 N. R 13 W. the four South and West Bdrs. T 27 N. R 15 W. and four North Bdy. of T 27 N R 16 W, of the G.S.R. Meridian, Arizona,

executed by Jesse B Wright U.S.S. under his contract No. 9, dated Sept. 16, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S Ingalls
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.