

W and S Bdy's. T. 19, N., R. 6, E.
W Bdy. T. 8, N., R. 1, W.
Candle.

Restabishment of fact & Bdy
T. 19 N. R. 6 E.

No. 1424

1424

BOOK 1424

4-978

FIELD NOTES
GENERAL LAND OFFICE.

No. 1424



Book "A" No. 1424
Extension
T. 19 N. R. 6 E. T. 8 N. R. 1 W.

BOOK 1424

Field Notes
of the Survey of the

West + South bdy T. 19 N. R. 6 E. +
West boundary T. 8 N. R. 1 W.

of the
Gila + Salt River Base + Meridian
in the
Territory of Arizona.
as surveyed by
Carl R. Caudle,
U. S. Deputy Surveyor
under his contract No. 67.

Dated May 22 - 1900.

Survey commenced Dec. 3 - 1900.
Survey completed Jan. 4 - 1901.

BOOK 1424

20 6

18 7

15 18 D. 19 M. R. 6 E.

13 19

11 30

9	31	32	39
21	25	25	26

42 6

40 7

38 18 D. 8 M. R. 19 E.

36 19

34 30

32 31

Preliminary Oaths of Assistants.

We, Marvin Gaudle
and E. B. Hamilton

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; 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 distance 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 West and

South boundaries of T. 19 N. R. 6 E.
and the West boundary of
T. 8 N. R. 1 W.

of the Gila and Salt River Base and Meridian in the Territory of Arizona.

Marvin Gaudle Chainman.
E. B. Hamilton Chainman.
..... Chainman.
..... Chainman.

Subscribed and sworn before me, this 3rd
day of December 1890.

Carl R. Gaudle
Notary Public.

U. S. Deputy Surveyor.

[SEAL.]

We, *R. C. Jones* and *James R. Hance*
and *G. S. Purtyman*,

do solemnly swear that we will well and truly per-
form the duties of *assessors* and

flagman

in the establishment of corners and other duties,
according to instructions given us, and to the best
of our skill and ability, in the survey of the

West and south boundaries of

T. 19 N. R. 6 E and the West boundary

of T. 8 N. R. 1 W.

of the Gila and Salt River Base and Meridian, in
the Territory of Arizona.

R. C. Jones

James R. Hance

G. S. Purtyman

Subscribed and sworn to before me this *3rd*

day of *December* 189*0* *1900*.

Carl R. Baudle

Notary Public.

U. S. Deputy Surveyor

W. Body, of T. 19 N. R. 6 E.

Survey commenced December 3, 1900
and executed with a $2\frac{1}{2}$ V.S.E.
Tusley light mountain Transit
(not numbered) with solar
attachment and Jones Patent
Latitude arc. 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 vernier of the lat.
arc; the vernier of the lat. arc
read to single minutes and ten
seconds of arc, respectively.

The instrument was examined
tested on the true meridian at
Tucson, found correct and was
approved by the Surveyor General
for Arizona August 20th 1900.

W. Bdy. of T. 19 N. R. 6 E.

To examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during P.M. & A.M. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 19 & 20 N. Rs. 5 & 6 E,
Gila & Salt River Bas. & Meridian.
Latitude $35^{\circ}01'02.2''$, Longitude $111^{\circ}28'17''$

I set off $22^{\circ}06\frac{1}{2}'$ S. on the decl. arc,
 $35^{\circ}01'$ N. on the lat. arc, and at
 $3\frac{1}{8}^m$ P.M., best, determine a
true meridian with the solar,
and mark a point thereof by a sack
on a plug set firmly in the ground
5.00 chs. N. of my station

Dec. 3rd, 1900.

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6
BOOK 1424
W. Bdy. of T. 19 N. R. 6 E

Dec. 4th: At 2^h 23^m A.M. I went, I observe Polaris at Western elongation, in accordance with the manual of instructions, and mark a point in the line thus determined by a catch on a plug set firmly in the ground 5.00 chs. N. of my station.

At 7^h 20^m A.M. I lay off the azimuth of Polaris $1029\frac{1}{2}'$ to the East, and mark a point in the true meridian thus determined by a catch on the plug already set 5.00 chs. N. of my station, which coincides with the point determined with the solar.

At 8^h 04^m A.M., I set off $2210\frac{1}{2}'$ S on the decl. arc, 3500' N. on the lat. arc, and determine a true meridian with the solar, which coincides

W. Bdy. of T. 19 N. R. 6 E.

with the true meridian determined
by the Polaris observations.

The solar apparatus by P.M. & a.m. hours
determines positions for true meridian
respectively coinciding with the
meridian established by the Polaris
observations. Therefore I conclude
the adjustment of the instau-
ment are satisfactory

The magnetic bearing of the true
meridian at 8^h 15^m A.M. is $N. 15^{\circ} 10' W.$
the angle thus determined reduced by the
table page 100 of the manual gives the
mean mag. decl. $15^{\circ} 09' E.$

W. Bdy. of T. 19 N. R. 6 E.

I begin at the cor. of Tps. 19 & 20 N.
 Rs. 5 & 6 E., which is a post greatly
 decayed, witnessed as described
 by the surveyor general. I reestablished
 the cor. at the same point as follows.
 Set a malapaie 18 x 10 x 6 ins. 12 ins
 in the ground for cor. of Tps. 19 & 20 N. R.
 5 & 6 E., marked with 6 nails on
 N. E. S. & W. edges. And raise a mound
 of stone 2 ft. base, 1 1/2 ft. high S. of cor.
 Pits impracticable. From which
 A Pine 40 ins. diam., bears N. 43° 17' E. 109
 lbs. dist., marked T. 20 N. R. 6 E. S. 31 B.T.
 A Pine 40 ins. diam., bears S. 75° E. 238 lbs. dist.,
 marked T. 19 N. R. 6 E. S. 6 B.T.
 A Pine 32 ins. diam., bears S. 75° W. 455 lbs. dist.
 marked T. 19 N. R. 5 E. S. 1 B.T.
 A Pine 24 ins. diam., bears N. 70° 40' W. 156 lbs.
 dist., marked T. 20 N. R. 5 E. B.T.

W. Bdy. of T. 19 N. R. 6 E.

From the cor. as reestablished, I run
South

on a random line bet. Tps. 19 N.

Rs. 546 E. and at 453.97 chs. the

Cor. of Tps. 18 & 19 N. Rs. 546 E. bears

East. 114.05 chs. dist., marked and

witnessed as described by the Surveyor

General. Therefore at this point I

Set a limestone 15 X 10 X 8 ins., 10 ins. in

the ground for cor. of Tps. 19 N. Rs. 546 E.

marked with 6 notches on E. N. & W. edges;

from which

A Pine 16 ins. diam., bears N. 130° 35' E. 142 chs. dist.,

marked T. 19 N. R. 6 E. S 31 B. T.

A Pine, 20 ins. diam., bears N. 46° 45' W. 70 chs. dist.,

marked T. 19 N. R. 5 E. S 36 B. T.

Thence I run

North

bet. secs. 31 & 36.

W. Bdy. T. 19 N. R. 6 E.

- Over Mt. Laurel through heavy pine.
- 6.00 Low Ridge bears E. 80.
- 40.00 Set a Limestone 16 x 10 x 8 ins, 10 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on
N. face; from which
a Pine 18" diam. bears N. 61° E. 20 lbs. dist.,
marked $\frac{1}{4}$ S. 31 B.T.
- a Pine 24" diam. bears N. 81° 30' W. 17 lbs.
dist., marked $\frac{1}{4}$ S. 36 B.T.
- 64.00 Descend. bear N. E. 48.
- 76.00 Canyon 100 ft. deep across N. E.
- 79.00 Top ascent of 100 ft. bro. N. E. 48.
- 80.00 Set a Limestone 18 x 10 x 6 ins, 12 ins.
in the ground for cor. of sec. 25, 30,
31, & 36, marked with 1 notch on S. and
5 notches on N. edges; from which
a Pine 6 ins. bears N. 21° 10' E. 76 lbs. dist.,
marked T. 19 N. R. 6 E. S. 30 B.T.
- An oak, 8 ins. diam. bears S. 49° 45' E. 77 lbs. dist.
marked T. 19 N. R. 6 E. S. 31 B.T.

W. Bdy. T. 19 N. R. 6 E.

A Pine 2 x ins. diam., bears S. 29° 25' W. 112 chs. dist.

marked T. 19 N. R. 5 E. S. 36 B. T.

A Pine 8 ins. diam., bears N. 53° 30' W. 72 chs. dist.

marked T. 19 N. R. 5 E. S. 25 B. T.

Oliver Barney's house bears S. 60° 45' W.

12.00 chs. dist.

Land, mountainous.

Soil, sandy loam + stony, at 1/2 B. Rate

Timber Pine

Mountainous & heavily timbered land 80.00%

Note, - It being cloudy at noon no

obs. could be made

North

bet. secs. 25 & 30.

Over Mts. & heavily timbered land.

9.00 Descend, bears S. 78° E.

14.00 Canyon 150 ft. deep, course N. E. ascend

14.75 Sandstone ledge 20 ft. high

W. B. de J. T. 19 N. R. 6 E.

- 15.25 Ridge, 150 ft. high bears E. & W.
- 16.50 Canyon, 150 ft. deep course N.E.
- 23.50 Ridge, 150 ft. high bears E. & W.
- 28.00 Ravine, 20 ft. deep, course N.E.
- 38.00 Ravine, 50 ft. deep, course N.E.
- 40.00 Set a limestone 15 x 10 x 5 ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. face; from which
a Pline 12 ins. diam. bears N. $32^{\circ} 30' E$.
62 lbs. dist., marked $\frac{1}{4}$ S. 20 B.T.
- a Pline 15 ins. diam., bears N. $26^{\circ} 15' W$. 26 lbs.
dist., marked $\frac{1}{4}$ S. 20 B.T.
- 69.00 Descend, bear N.E. & S.W.
- 76.00 Canyon 75 ft. deep course N.E.
- 80.00 Set a Limestone 18 x 12 x 10 ins., 12 ins.
in the ground for cor. of secs. 19, 24, 25
& 30, marked with 2 notches on S & 4 notches
on N. edges; from which
a Pline 20 ins. diam. bears N. $23^{\circ} 40' E$, 109 lbs.

W. Bdy. T. 19 N. R. 6 E.

dist, marked T. 19 N. R. 6 E. S. 19 B. T.

A Pine 20 in. diam. bears S. $60^{\circ}30'E$. 56 lbs. dist,
marked T. 19 N. R. 6 E. S. 30 B. T.

A Pine 10 in. diam. bears S. $47^{\circ}35'W$. 91 lbs. dist,
marked T. 19 N. R. 6 E. S. 25 B. T.

A Pine 14 in. diam. bears N. $18^{\circ}55'W$. 87 lbs. dist,
marked T. 19 N. R. 5 E. S. 24 B. T.

Land, Mountainous, 800 achs.

Soil, stony, 4 lb Rate

Timber, heavy Pine, 800 achs.

Dec. 4, 1900.

Dec. 5th at 8 a.m. left, I set off.

$22^{\circ}19'S$. on the decl. arc, $34^{\circ}58'N$ on the
lat. arc, and determine a true meridian
with the solar, at cor. $19, 24, 25, \& 30$.

Thence I run

North,

bet. sec 19 & 24.

W. Bdy. T. 19 N. R. 6 E.

- Over Mts. land through heavy Pine.
- 15.00 Ravine 60 ft. deep, course N.E.
- 26.00 Ridge 80 ft. high, bears E. & W.
- 31.75 Ravine, course N. W.
- 33.20 Point for witness cor. to $\frac{1}{4}$ sec. cor. falls
on a sandstone ^{in place} $6 \times 5 \times 3$ ft. above ground.
- Cut a cross (+) at exact point for
witness cor. to $\frac{1}{4}$ sec. cor., and marked
W.C. (+) $\frac{1}{4}$; from which
- A Pine 16 in. diam., bears N. $16^{\circ} 30' E.$ 43 lks.
dist., marked W.C. $\frac{1}{4}$ S. 19 B.T.
- An Oak 8 in. diam., bears S. $41^{\circ} 10' W.$ 23 lks.
dist., marked W.C. $\frac{1}{4}$ S. 24 B.T.
- 33.50 Spur bears N.W. & S.E., descend.
- 40.00 Point for $\frac{1}{4}$ sec. cor. on precipitous slope, W.C. 6800.
- 55.00 Bottom of W. Branch Oak Creek Canyon
20 lks. wide, no water, course E.
about 1700 ft. below top ascend.
- 58.00 Point for cor. of sec. 13, 18, 19 & 24

W. Bdy. T. 19 N. R. 6 E

falls on precipitous slope of canyon.
Land, Onts. 8000 chs.

Soil, stony. 4th Rate.

Timber, heavy Pine, 8000 chs.

Note. - Clouds at noon prevent
obs. for Lat.

North

bet. secs. 13 & 18.

Over Onts heavily timbered land
ascend.

7.50 Set a limestone 20x10x8 ins., 15 ins.
in the ground for witness cor. of
secs 13, 18, 19 & 24, marked W. C.
on N.E. face, + 3 notches on N. & S. edges,
from which

A Pine 16 ins. diam., bears N. 24° 50' E. 132 lbs. dist,
marked W. C. T. 19 N. R. 6 E. S. 18. B. T.

A Pine 10 ins. diam., bears S. 19° 5' E. 53 lbs. dist.

W. Bdy. T. 19N. R. 6E

- marked W. C. T. 19N. R. 6E. S. 19 B.T.
- A Pine 8 ins. diam., bears S. $45^{\circ} 10' W$. 21 lbs. dist.,
marked W. C. T. 19N. R. 5E. S. 24 B.T.
- A Pine 2 1/2 ins. diam., bears N. $53^{\circ} 25' W$. 119 lbs.
dist., marked W. C. T. 19N. R. 5E. S. 23 B.T.
- 8.03 A Pine 20 ins. diam., on ledge, 1 mark
with 2 notches on N. & S. sides.
- 14.00 Ridge + Top of N. side of Canyon, about
1700 ft. above the bottom, bears E & W.
- 40.00 Set a Limestone $15 \times 12 \times 6$ ins., 10 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$
on W. face; from which.
- A Pine 10 ins. diam., bears S. $42^{\circ} 10' W$. 35 lbs.
dist., marked $\frac{1}{4}$ S 13 B.T.
- An Oak 8 ins. diam., bears N. $85^{\circ} 0' E$. 19 lbs. dist.,
marked $\frac{1}{4}$ S. 18 B.T.
- 41.00 Ravine 50 ft. deep, course N.E.
- 59.25 Ravine 40 ft. deep, course N.E.
- 80.00 Set a Limestone $14 \times 10 \times 8$ ins., 10 ins.

W. Bdy, T. 19 N. R. 6 E.

- in the ground for cor. of secs. 7, 12,
13, & 18. marked with 4 notches on
S, & 2 notches on N. edges; from which
A Pine 24 vis. diam. bears N. $64^{\circ}15'E$ 104 lks.
dist., marked T. 19 N. R. 6 E. S. 7 B. T.
- A Pine 16 vis. diam., bears S. $26^{\circ}35'E$ 48 lks. dist.,
marked T. 19 N. R. 6 E. S. 18 B. T.
- A Pine 24 vis. diam., bears S. $69^{\circ}15'W$ 94 lks. dist.,
marked T. 19 N. R. 5 E. S. 13 B. T.
- A Pine 24 vis. diam., bears N. $37^{\circ}40'W$ 151 lks.
dist., marked T. 19 N. R. 5 E. S. 12 B. T.

Land, Mts. 8000 lbs.

Soil, stony & the date

Tinder, heavy Pine, 800 lbs.

Dec, 3rd, 1900.

Dec 6th at 8 h am, but, I set off $22^{\circ}26'S$
on the decl. arc, $34^{\circ}59'50''$ from lat
arc, and determine a true meridian

W. Bdy. T. 19 N. R. 6 E

with the solar at the cor. of secs 7, 12, 13 & 18.

Thence run

North,

bet. secs 7 & 12,

- 800 One Pitz. laid through heavy Pine
Ridge, 100ft. high bears $\text{N.W. } 25^{\circ} \text{ E}$
- 28.00 Head of Canyon, course N.W.
- 40.00 Set a Limestone $14 \times 10 \times 6$ ins., 10 ins. in
the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
W. face; from which
A Pine 24 ins. diam., bears $\text{S. } 83^{\circ} \text{ W. } 9 \frac{1}{2}$ lks.
dist., marked $\frac{1}{4}$ S. 12 B.T.
- A Pine 24 ins. diam., bears $\text{S. } 56^{\circ} 20' \text{ W.}$
 $8 \frac{1}{2}$ lks. dist. marked $\frac{1}{4}$ S. 7 B.T.
- 63.00 Ridge, bears $\text{N.W. } 25^{\circ} \text{ E}$
- 80.00 Set a Malapa's Stone $14 \times 10 \times 6$ ins.,
10 ins. in the ground for cor. of secs.
16, 7, & 12, marked with 5 notches
on the S. and 1 notch on N. edge.

W. Bdy. T. 19 N. R. 6 E. BOOK 1424

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from which

A Pine 4 ins. bears N. $29^{\circ}07'E$. 52 lbs dist, marked
T. 19 N. R. 6 E. S. 6, P. 3

A Pine 8 ins. diam, bears S. $55^{\circ}42'E$. 143 lbs dist,
marked T. 19 N. R. 6 E. S. 9 P. 1

A Pine 10 ins. diam, bears S. $42^{\circ}08'W$. 20 lbs.
dist., marked T. 19 N. R. 5 E. S. 12 P. 1

A Pine 14 ins. diam, bears N. $39^{\circ}53'W$. 25 lbs. dist
marked T. 19 N. R. 5 E. S. 1 P. 1

Land, Acre, 80,000 chp.

Soil, plomg, 4th Rate.

Timber, heavy Pine, 80,000 chp.

Sec. 6th At this cor. & set off $22^{\circ}29\frac{1}{2}'S$.

on the led. one, and at $11^{\circ}51'8''R.W.$

but, observe the sun on the
meridian, the resulting lat. is

$35^{\circ}00'30''$, which is correct.

W. Bdy. T. 19 N. R. 6 E.

North.

bet. secs. 14 & 6,

- Over Onts. land through heavy Pine.
- 1.00 Descend, bears $N. 75^{\circ} E.$
- 23.00 Foot descent of 75 ft. bears $N. 75^{\circ} E.$
- 40.00 Set a Malapais $15 \times 10 \times 7$ ins., 10 ins.
in the ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face; from which
a Pine 24 ins. diam., bears $N. 70^{\circ} 30' E.$, 53 lts.
dist., marked $\frac{1}{4}$ S. 6 B.T.
- a Pine 20 ins. diam. bears $N. 28^{\circ} 55' W.$, 47 lts.
dist., marked $\frac{1}{4}$ S. 1 B.T.
- 41.17 a Pine 40 ins. diam., on line & mark
with 2 notches on N. & S. sides.
- 41.25 Leave heavy Pine timber, bear E. & W.
- 53.98 The cor. of Tps. 19 & 20 N. R. 5 & 6 E.
Land. Onts., & nearly level.
Soil stony & black loam, ^{2nd & 3rd} ~~2nd & 3rd~~ ^{Reb.}
Timber, heavy Pine,
Ont. on heavily timbered land 41.25 chs.
Dec. 6th 1900.

S. Bdy. T. 19 N. R. 6 E.

Sec. 7th. at 9^h am., cont., I set off
 $22^{\circ}35' S$ on the decl. arc, $34^{\circ}56'10'' N$.
 on the lat. arc, and determine a
 true meridian with the solar
 at the cor. of Tps. 18 & 19 N. R. 5 & 6 E.
 marked and witnessed as described
 by the surveyor General. I change
 the markings to refer only to T_p. 18th
 R. 5 & 6 E.

Thence I run

West

on a random line along the
 S. bdy. of T. 19 N. R. 6 E. and at 114.05
 chs. the cor. of T_p. 19 N. R. 5 & 6 E.
 which I established Dec. 4th 1900.

Thence I run

East

on a true line along S. bdy. sec. 31.
 Over Mts. land through heavy Pine

S. Bdy. T. 19 N. R. 6 E.

- 5.00 Second, bear N.E., 75 W.
- 10.00 Canyon 250 ft. deep. Course S.W.
- 15.00 Top E. Rim of canyon bro. N.E. 75 W.
- 2660 Routine, Course S.
- 40.00 Set a limestone 24 x 16 x 10 ins., 18 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{4}$ on N. base, from which
A Pine 16 ins. diam., bears N. 37° E. 76 lbs. dist.
marked $\frac{1}{4}$ S. 31 B.T.
- A Pine 10 ins. diam., bears N. 14° 35' W. 112
lbs. dist., marked $\frac{1}{4}$ S. 31 B.T.
- 77.90 Log fence, bears N 75 S.
- 80.00 Set a limestone 18 x 12 x 8 ins., 12 ins.
in the ground for cor. of sec. 5 / 732
marked with 1 notch on W. and 5
notches on E. edges; from which
A Pine 24 ins. diam., bears N. 79° 05' E. 105
lbs. dist., marked T. 19 N. R. 6 E. S. 32 B.T.
- A Pine 14 ins. diam., bears N. 35° 20' W. 12 lbs.

S. Bdy. T. 19N. R. 6E.

marked T. 19N. R. 6E. S. 31 B.T.

Land, Mts. and nearly level.

Soil, stony & sandy loam, 2nd & 4th Pct.
Timber, heavy Pine.

Mts. or heavily timbered land 8000 chs.

Dec. 7th; at this cor. & set off $22^{\circ}36\frac{1}{2}' S$.

on the decl. arc; and at 11 h 51.4^m
am. but, observe the sun on the

meridian; the resulting lat is

$34^{\circ}56'$ which is about correct.

East,

on a true line along S. Bdy. of sec. 32.

Over nearly level land, covered
with heavy Pine timber.

34.05 The old cor. of T^h. 18N. R. 576E. previously

described, from which I continue
N. $89^{\circ}21' E$.

and a random line bet. T^{ps}. 5719N.

S. Bdy T. 19 N. R. 6 E.

setting trap $\frac{1}{4}$ sec. & sec. cor. at
 intervals of 4000 chs. counting from
 cor. of sec. 31 & 32 last established,
 and at 73.93 chs. fall $\frac{1}{2}$ ch. N. of the old
 $\frac{1}{4}$ sec. cor. and at 34.10 on next mile Fall
 7 lks. S. of the old cor. to sec 56, 31, & 32
 and at 74.20 chs. Fall 16 lks. N. of the
 old $\frac{1}{4}$ sec. cor. therefore the true bearing
 of each half mile is respectively
 N. 89° 49' E.

N. 89° 43' E.

S. 89° 51' E.; therefore I return to
 the cor. of T. 18 N. R. 5 & 6 E. at 34.05 chs. on
 S. bdy. of sec. 32 and I run
 N. 89° 49' E.

on a true line along S. bdy. sec. 32.

3760 Run 80 ft. course S.

4000 Set a quartz stone 12x10x6 ins, 8 ins.
 in the ground for $\frac{1}{4}$ sec. cor., marked

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$\frac{1}{4}$ on N. face; from which

A Pine 12 ins. diam. bears N. $39^{\circ}51'$ W. 74
lks. dist., marked $\frac{1}{4}$ S. 32 B.T.

A Pine 10 ins. diam. bears N. $40^{\circ}37'$ E. 102
lks. dist., marked $\frac{1}{4}$ S. 32 B.T.

48.35 Ravine, course, S.

51.00 Spur. bears N. 75. Descend,

57.00 Canyon 250 ft. deep. course N.E.

69.00 Toparent of 250 ft. bears N. 75. W.

73.93 The old $\frac{1}{4}$ sec. cor. which I change to
refer only to T. 18 N. R. 6 E

Thence

N. $89^{\circ}43'$ E.

on a true pine along S. bdy. of sec. 32.

80.00 Set a quartz stone 16 x 10 x 6 ins. in
the ground for cor. of sec. 32 & 33,

marked with two notches on W.

and four notches on E. edges. from which

A Pine 20 ins. diam. bears N. $39^{\circ}30'$ E. 15 lks.

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S. Bdy. T. 19 N. R. 6 E.

dist., marked T. 19 N. R. 6 E. S. 33 BT.

A Pine 28 ins. diam., bears N. 54° 30' W. 94

lbs. dist., marked T. 19 N. R. 6 E. S. 32 BT.

Land, nearly level & Mts.

Soil, sandy loam & stony
2nd & 4th Rate.

Timber, heavy Pine, 8000 ch.

Mts. or heavily timbered land 8000 ch.

Sec. 7th 1900.

Sec. 8th. At 8 h. am., lat., det.

off 22° 39½' S. on the decl arc, 34°

56' N. on the lat. arc; and determine

a true meridian with the solar

at the cor. of sec. 32 & 33.

Thence I run

N. 89° 43' E.

on a true line along S. bdy of sec. 33.

Over Mts. land through heavy Pine

S. Bdy. T. 19 N. R. 6 E.

34.00 The old cor. of sec. 5, 6, 31 & 32, I change
to refer only to sec. 5 & 6, T. 19 N. R. 6 E.

Then of

S. $89^{\circ}51'E$.

On a true line along S. bdy. sec. 33.

40.00 Set a Malaga's 16x10x6 ins., 10 ins. in
the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$
on N. face; from which

A Piece 8 ins. diam., bears N. $13^{\circ}10'E$, 131 lks.
dist. marked $\frac{1}{4}$ S. 33 B.T.

A Piece 8 ins. diam., bears N. $66^{\circ}W$, 40 lks. dist.,
marked $\frac{1}{4}$ S. 33 B.T.

40.20 Descend, bears N. 78.

49.75 Canyon, 200 ft. deep course N.E. to E.
Enter dense aspen & oak underbrush

67.00 Same Canyon, course S. $80^{\circ}E$.

72.50 Same Canyon, course, N.E.

74.20 The old $\frac{1}{4}$ sec. cor., I change to refer to
T. 18 N. R. 5 E. only.

S. Bdy. T. 19 N. R. 6 E

- 76.00 Spur, 75 ft. high bears ~~Asps.~~
- 78.00 Ravine, 30 ft. deep, course N.
- 80.00 Set a limestone 16x10x6 ins., 10 ins.
in the ground for cor. of sec. 33 &
34, marked with 3 notches on
E. & W. edges; from which a
Spruce 24 ins. diam., bears N. 54° 00' W. 77
77 lbs. dist., marked T. 19 N. R. 6 E, S. 34 BT.
- A Pine 24 ins. diam., bears N. 49° 50' W. 34 lbs.
dist., marked T. 19 N. R. 6 E, S. 33 BT.
- Land, nearly level & Mts.
- Soil sandy loam & stony, 2nd & 4th Rate.
- Timber, heavy Pine.
- Onto. or heavy timber or dense under-
growth land, 80.00 Chs.

From the cor. of Tp. 18 N. R. 5 & 6 E.

40.00 ^{Iron North}
over level land through heavy Pine
The old 1/4 sec. cor. for sec. 31 & 36.

S. Bdy. T. 19 N. R. 6 E.

I destroy all traces of this cor.
and efface marks on the
bearing trees.

Land, nearly level.

Soil, sandy loam, 2nd Rate.

Timber, heavy Pine, 40,000 chs.

Dec. 8th, 1900.

Note, - The west Bdy and that portion
of the S. bdy. of T. 19 N. R. 6 E. as established
by me taken with the old surveys
of the South, East & North Advs.
shows an error of about 10,000 chs.
in latitude and 6,000 chs. in
departure, therefore it becomes
necessary to retrace the Exterior
bdos. of the tp. in order to properly
close the survey within the
prescribed limits as required by
the manual of instructions.
For the Field notes of the retracements see
Book B. of this series.

Survey commenced Jan. 2nd 1901, and executed with a W. & S. E. Survey light mountain transit, (not numbered) with solar attachment and Jones Patent Latitude arc. For complete description and test of instrument see Book. A., - W. Bdy. I. 19 N. R. 6 E, Jan. 2nd 1901. at 8 a.m., but, I set off $22^{\circ} 52\frac{1}{2}'$ S. on the decl. arc, $33^{\circ} 59' 20''$ N. on the lat. arc, and determine a true meridian with the solar, at the cor. of Lts. 7 & 8 N. R. 1 & 2 W. Ele & Salt River Base & meridian which is a granite stone $24 \times 12 \times 12$ ins set in a mound of stone, marked & witnessed as described by the Surveyor General.

mean mag. decl. $13^{\circ} 52' E$.

Thence I run

North

bet. secs. 31 & 36.

Over Mts, land covered with Palo verde, mesquite, cat claw, and giant tree cactus.

- 1.25 Ravine 60ft. deep, course N.E.
- 6.00 Drain, course E.
- 10.00 Spar, 100ft. high, bears E. & W. Stead descend over rough slopes to N.E.
- 24.00 Ravine, 100ft. deep, course E.
- 27.00 Ridge 100ft. high, bears E. & W.
- 38.00 Crater Canyon, 250 ft. wide, course S.E. to E.
- 40.00 Point for $\frac{1}{4}$ sec. cor. falls in Canyon
- 40.60 Set a granite stone 20x12x4 ins., 15 lbs. in the ground for witness cor. to $\frac{1}{4}$ sec. cor., marked W. C. $\frac{1}{4}$. on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Pit impracticable

W. Bdy. T. & N. R. 1 W.

- 48.00 Ridge 6 ft. high, bears E. & W.
 53.00 Drain, course E.
 66.60 Road to Hot Springs, bears N.E. & S.W.
 70.00 Ridge 10 ft. high, bears E. & W.
 80.00 Point for cor. falls on a granite stone
 4 x 2 x 1 ft. above ground in place.
 Cut a cross (+) at exact point
 with 1 groove S & 5 grooves N. for
 cor. of secs. 25, 30, 31, & 36; and
 raise a mound of stone 2 ft. base
 1/2 ft. high W. of cor. It is impracticable.
 Land Onts. 80.00 chs.

Soil. stony, worthless, 1/4 th. late.
 No timber, Palomede, mesquite,
 cat claw brush & giant tree
 cactus.

Jan. 2nd: at this cor. I set off $22^{\circ}54\frac{1}{2}' S$ on
 the decl. arc, and at 0^h 04 m P.M. bent above
 the sun on the meridian, the resulting lat. is
 $34^{\circ}00'$ which is correct.

W. Bdy. T. 8 N. R. 1 W.

North,

bet. secs. 25 & 30,

Over Mts. land through Palo verde,
mesquite, catclaw, & tree cactus,

- 0.70 Canyon 70ft. deep, course S.E.
- 7.00 Ridge 100ft. high, bears E, & W.
- 12.00 Ravine 50ft. deep, course N.E.
- 30.50 Canyon 100ft. deep, course S.E.
- 40.00 Set a Malapais 24x14x12 ins., 15 ins.
in the ground for $\frac{1}{4}$ sec. cor., marked
 $\frac{1}{2}$ on W. face; and raise a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high N.W. of
cor. Sets impracticable.
- This cor. is about 300ft. above canyon.
- 45.00 Ridge 300ft. high bears N.W. & S.E.
- 61.00 Buck Horn Canyon 200 lbs. wide
course E. to N.E. About 400ft. below Ridge
- 66.00 Spur, 100ft. high, bears E. & W.
- 98.00 Spur 100ft. high, bears E. & W.

5000 Point for cor. falls on rock in place
10x6x1 ft. above ground, I
Cut a cross (+) at exact point
for cor. of sec. 19, 24, 25, & 30,
and cut 2 grooves S. & 4 grooves N. of
cross; and raise a mound of
stone 2 ft. base, 1½ ft. high W. of cor.
Pits impracticable,
Land, Onto, 80.00 achs.
Soil, stony, 4th Rate.
No timber, Palomero, mesquite,
catclaw & tree cactos.

Jan. 2nd 1901.

Jan. 3rd. at 8h 05 a.m., lat.
I set off 22° 47½' S. on the decl. arc
37° 01' N. on the lat. arc; and
determine a true meridian
with the solar. at cor. of sec. 19, 24, 25 & 30.

v. Bdy. T. S. N. R. 1 W.

Thence I run

North,

bet. secs. 19 & 24.

Over Mts. land, through Palo Verde,
mezquite, catclaw, & tree cactus.

- 0.20 Ravine, 30ft. deep, course E.
- 3.30 Descent Malpais Wall, 100ft.
high, bears NW, & S.E.
- 8.00 Wire fence, bears NW, & S.E.
- 14.00 Road, bears NW, & S.E.
- 14.50 Castle Creek, dry, 3.00 chs. wide
sandy & stony bottom, course S.E.
- 24.00 Ridge 200ft. high, bears E. & W.
From this point W^m White's house
bears N. 85° 07' W.
- 28.00 Canyon 150ft. deep, course W.
- 32.00 Spur, 200ft. high, bears E. & W.
- 33.50 Drain, course W. ascend.
- 40.00 Set a quartz stone 6x12x6 ins., 10 ins.

W. Bdy, T. 8 N. R. 1 W.

in the ground for $\frac{1}{2}$ sec. cor. marked
 $\frac{1}{2}$ on W. face; and raise a mound of
 stone 2 ft. base, $\frac{1}{2}$ ft. high W. of cor.
 Pits impracticable.

From this cor a ledge of copper ore bears
 E. 50° S. dist.

47.00 Ridge 600 ft. high, bears E. & W.

From this point, Wm White's house
 bears S. 27° 30' W.

70.00 Canyon, course, W, 300 ft. deep

76.00 Spur, 100 ft. high, bears E. & W.

80.00 Set a granite stone 24 x 18 x 6 ins., 18
 ins. in the ground for cor. of sec.
 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.
 Pits impracticable
 Land, very broken & Mts, 8000 chs.
 Soil, clay, & the State

W. Bdy, T. S. N. R. 1/2

No timber, Paloverde, mesquite,
catclaw brush & tree cactus

Note, - It being cloudy at noon no lat. obs.
could be taken. Var. $13^{\circ}55'E$.

North

bet. secs. 13 & 18.

Over Pits, land through Paloverde,
mesquite, catclaw & tree cactus

- 2.00 Canyon, 100 ft. deep, course S.W.
- 17.00 Canyon, 60 ft. deep, course E.
- 32.00 Canyon, 50 ft. deep, course E.
- 34.50 Malpais Spur 300 ft. high, bears E. 90°
- 40.00 Set a Malpais $24 \times 10 \times 8$ ins., 15 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.
- Pits impracticable
- 46.00 Canyon 300 ft. deep, course S.E.

W. Bdy. T. & N. R 1 W.

- 49.00 Malapais Spur 200ft. high, bears E. W. S.
 64.00 Canyon 100ft. deep, course W.
 71.00 Spur 200ft. high, bears E. W. S.
 77.00 Canyon, 100ft. deep, course S. E.
 80.00 Set a Malapais 2 1/2 x 1 1/2 x 8 in., 15 in.

in the ground for cor. of sec. 7, 12, 13,
 & 18, marked with 4 notches on S,
 and 2 notches on N. edges; and raised
 mound of stone 2 ft. base, 1 1/2 ft.
 high N. of cor. Pitoupractisha.

Land, very broken & Mt. 8000 chs.

Soil, stony 4th Rate.

No timber, Palomede, mezquite,
 cat claw, & tree cactus.

Jan. 3rd, 1901.

Jan 4: at 9 a.m., cont., I set off
 $22^{\circ}43'S.$ on the decl. arc; $34^{\circ}03'N.$ on
 the lat. arc; and determine a true
 meridian with the solar at the
 cor. of secs. 7, 12, 13, & 18.

Thence I run
 North,

bet. secs. 7 & 12.

Over Mts. Lacey, through Palo verde,
 mesquite, cat claw, & tree cactus.

8.50 Ridge 300ft. above cor. bars E. & W.

Thence along E. side of Wall of Malapais

15.00 Descend from wall bears NW. & SE.

20.00 Canyon 300ft. deep course NW.

24.00 Ridge 200ft. high bears NW. & SE.

33.50 Canyon 200ft. deep, course W.

39.00 Ridge 300ft. high, bears E. & W.

40.00 Set a Malapais 18 X 16 X 6 ins., 12 ins.
 in the ground for $\frac{1}{4}$ sec. cor., marked

$\frac{1}{4}$ on nr. face; and raise a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high, nr. of cor.
Pit impracticable.

46.50 Ravine, 40 ft. deep, course S.W. ascend.

48.00 Ravine, 100 ft. deep, course S.W.

48.60 Ridge & Top ascent of 60 ft. bears
N.E. & S.W. Point for witness cor.

Set a Malapais 36x12x4 ins., 20 ins.
in the ground for witness cor. to cor.
of sec. 16, 7, & 12 marked W.C. on N.E.
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 nr. of cor.
Pit impracticable.

50.00 Point for cor. of sec. 16, 7, & 12 fall on
shelving side of Canyon, W.C.
1.40 Chs. S.

Land, very broken & Mts. 8000 chs.
Soil, stony, 4th Rate.

No timber, Palo verde, mezquite
catclaw, & tree cactus.

Note, - It being cloudy at moon
no obs. for lat. could be taken.

North

bet. secs. 1 & 6.

Over Mt. Laurel through Palo verde,
mezquite, catclaw, & tree cactus.

- 3.00 Canyon 300ft. deep, course W.
5.00 Spur 400ft. above canyon, bears E. & W.
Thence over W. slope of Sheep Mtns
very rough & broken.
20.50 Canyon, 200ft. deep, course W.
33.00 Spur, 200ft. high, bears E. & W.
37.00 Ravine, 100ft. deep, course W.
39.00 Spur 40ft. high, bears E & W.
40.00 Set a Malapais 20X10X6 ins., 15 ins. in
the ground for $\frac{1}{2}$ 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. Pits impracticable.

- 45.00 Canyon, 200 ft. deep, course W.
- 55.00 Rocky Ridge 300 ft. high, bears E. & W.
- 60.00 Spur bears E. & W. descend,
- 70.00 Foot descent of 150 ft. bears W & NE
Thence over slope to W.
- 79.27 Intersect the 2nd Standard Parallel North and N. Body of the T^p. 8.66 Ch^s. E. of the Standard Cor. of T^p. 9 N. R^s. 1 & 2 W., which is a granite stone 10x5x5 ins. above ground, marked and witnessed as described by the Surveyor General.
- Set a granite stone 20x10x6 ins., 15 ins. in the ground for closing Cor. to T^p. 8 N. R^s. 1 & 2 W. marked

C.C. on S, with 6 grooves on
E. S. & W. faces; and raise a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft.
high, S. of Cor. Pits in practicable
Land, very broken & mts. 79.27 ch.
Soil, stony, 4th Rate.

No timber, Palo verde, mesquite,
Catclaw & tree cactus

Jan 4, 1901.

General Description.

The land in Tps. 8 N. R. 14 W.
is very rough, broken & moun-
tainous; the soil is stony and
worthless. There is no timber in
either township. But there is an
abundant growth of arid, thorny
bushes & many varieties of cactus,
especially the Saguara or giant tree
cactus. Castle Creek runs through

the northeastern part of T. P. N. R.
24 and through the southwestern
part of T. P. N. R. 1 W

Carl R. Baudle,
U. S. Deputy Surveyor.

List of Names.

BOOK

1424

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a list of the names of the individuals employed by Carl R. Caudle, U.S. Deputy Surveyor, to assist in running, measuring and marking the lines and corners described in the foregoing field notes of the survey of the West and South Boundaries of T. 19 N. R. 6 E. and the West boundary of T. 8 N. R. 1 W. of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

Marvin Caudle	-	chairman
E. B. Hamilton	-	chairman
R. C. Jones	-	axman
James R. Hance	-	axman
G. S. Purtyman	-	flagman

Final Oath of Assistants.

BOOK 1424

We hereby certify that we assisted
Carl R. Caudle, U. S. Deputy Surveyor, in sur-
veying all those parts or portions of the
West and South boundaries of T. 19 N. R. 6 E., and
the West boundary of T. 8 N. R. 1 W., of the Gila
and Salt River Base and Meridian, in
the Territory of Arizona, as are represented in
the foregoing field notes and 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.

Marvin Caudle Chainman.

E. P. Hamilton Chainman,

R. C. Jones axman.

James R. Vance axman;

J. S. Purtyner, Flagman.

Subscribed and sworn to before me
this 18th day of January, 1901,

Carl R. Caudle

U. S. Deputy Surveyor.

Final Oath of U. S. Deputy Surveyor

I, Carl R. Candler, U. S. Deputy Surveyor, do solemnly swear that in pursuance of a contract received from George Christ, United States Surveyor General for Arizona, bearing date of the 22nd day of May, 1900, 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 West and South boundaries of ^{the west boundary of} T. 19 N. R. 6 E., and T. 8 N. R. 1 W. of the Gila and Salt River Base and Meridians, in the Territory of Arizona, as 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 ranges have been established and perpetuated in strict accordance with the Manual of printed instructions, the Special

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 true
Field Notes of such Survey; and
should any fraud be detected I will
suffer the penalty of perjury,
under the provisions of an act
of Congress approved August 8, 1846.

Carl R. Beaudin,
U. S. Deputy Surveyor.

Subscribed & sworn to before me this
24th day of January, A.D. 1901.

George Christ
U. S. Surveyor General for Arizona.

BOOK 1424

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GEN'L.

Tucson Arizona, 1900.

The foregoing field notes of the surveys of West and South Bdy. T. 19 N; R. 6 E.
and West Bdy. T. 8 N; R. 1 W

Gila & Salt River Meridian,

executed by Carl R. Bandle.

under his contract No. 67 dated 5/22/1900

having been critically examined, and the necessary corrections and explanations made, the field notes, and the surveys they describe, are hereby approved.

Hugh L. Price

U. S. Surveyor General for Arizona