

"Book B"

Resurrey South $\frac{3}{4}$ West Bdy's.

T. 23 N., R. 8 E.

Lampport- No. 98.

1432

BOOK 1432

4-671

FIELD NOTES
GENERAL LAND OFFICE.

No. 1432

No. 1432

BOOK 1432

Field notes
of the recurvey of the South Bdy.
& retracement survey of West Bdy.
of
Sp. 23 North Range & E.
of the
Gila & Salt River Base & Meridian,
in the
Territory of Arizona,
as surveyed by
James A. Lampart,
U. S. Deputy Surveyor,
under his Contract No. 98.
dated June 30-1902.

Survey commenced July 24-1902.
Survey completed Oct 9-1903.

Names, Duties of Assistants.

Wm. Lockridge.	Chairman
Fred. C. Roberts.	Chairman.
Wm. L. Bradley.	Flagman.
Wm. Lockridge.	Fireman.

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Sp. 23 N, R. & E.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Wm Lockridge
and Fred C. Roberts

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 distance to all notable objects, and the true length 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

S. Bdy + retracement of
W. Bdy of 923 N R 8 E
of the Gila & Salt River
Base & Meridian in the
Territory of Arizona

BOOK 1432

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

Wm. Lockridge Chainman.

Fred C Roberts Chainman.

..... Chainman.

..... Chainman.

Subscribed and sworn to before me this 28th day
of July, 1902.

[SEAL.]

James A Sampson
U.S. Deputy Surveyor

Notary Public.

We, Wm L Bradley
and Wm Lockridge

do solemnly swear that we will well and truly perform the duties of
flagman and 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 S. Bdy +
retracement of W. Bdy
of T 23 N R 8 E

BOOK 1432

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

Wm L Bradley, Flagman.
Wm Lockridge, Axman.
_____, Axman.
_____, Axman.

Subscribed and sworn to before me this 28 da
of July, 1902

James A. Sampson
U.S. Deputy Surveyor Notary Public.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Fred C. Roberts
 and William B. Lockridge
 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 distance to all notable objects, and the true length
 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
South and West bdy. T. 23, N. R. 8, E.
Retracement and re-survey.

BOOK 1432

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

William Lockridge, Chainman.
Fred C. Roberts, Chainman.
 _____, Chainman.
 _____, Chainman.

Subscribed and sworn to before me this 25th da
 of July, 1902.

[SEAL.]

James A. Sampson
 U.S. Deputy Surveyor Notary Public.

We, William R. Bradley

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do solemnly swear that we will well and truly perform the duties of
flagman and 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 South and West bdy. T2S31N.

R. S. Co.

Retracement and resurvey

BOOK 1432

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

x Wm L. Bradley, Flagman,

x William Lockidge, Axman.

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this 25th day

of July, 1902.

James A. Sampson
U.S. Deputy Surveyor Notary Public.

Che.

Survey of South Bdy. T. 23 N. R. 8 E

Survey commenced July 24-1902,
 & executed with a W. & L. E. Gurley
 Transit No. 15, with solar attach-
 ment. The horizontal limb is
 provided with two verniers placed
 opposite each other and reading
 to 1 minute of arc, which is the
 least count of the verniers of the
 Lat. & Decl. arcs.

Examine the adjustments of
 the instrument, & correct the level
 and collimation errors, then, to
 test the solar apparatus by com-
 paring its indications resulting
 from solar observations made during
 a. m. & p. m. hours, with a true
 meridian determined by observations
 on Polaris, I proceed as follows:

At the cor. of Tps. 22 and 23 N.,
 R. 8 & 9 E.; Latitude $35^{\circ} 19' N.$

ch.

Resurvey of South Bdy. T. 23 N., R. 8 E.

Longitude $111^{\circ} 28' W.$; I set off $35^{\circ} 19'$ N. on the lat. arc, and $19^{\circ} 56' N.$ on the decl. arc, and at 4 hrs. p.m. l.m.t., determine with the solar a true meridian, and mark the point thereof on a stone, firmly set in the ground, 5.00 chs. N. of cor.

At 11 hrs. 20 min. p.m. l.m.t. by my watch, I observe Polaris at Eastern elongation, in accordance with manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5.00 chs. N. of my station.

July 25. At 6 h. a.m. l.m.t., I lay off the Azimuth of Polaris $1^{\circ} 29'$ West, and mark the true meridian thus determined, by cutting a small groove in the stone set July 24, on which the true meridian

Obs. Recovery I. Idy. T. 23 N. R. 8 E. (ctd)

falls 0.25 ins. east of the mark determined by the solar,

At 8 hrs. a.m. l.m.t. I set off $35^{\circ} 19' N.$ on lat. arc, and $19^{\circ} 48' N.$ on decl. arc, and mark a point in the true meridian determined by the Solar. This mark falls 0.25 ins. east of True meridian established by Polaris observation.

The solar apparatus defines by a.m. & p.m. observations, positions for true meridians about 13" East and West of the meridian established by Polaris observation. Therefore, I conclude that the adjustments of the instrument are correct.

The magnetic bearing of the true meridian at 8 hrs. 30 mins. a.m. l.m.t. is $N. 140^{\circ} 40' W.$

chs. Reurvey T. bdy. T. 23 N. R. 8 E. (ctd)

From the cor. already described,
which is a pine stake, properly
marked and witnessed, as described
by the Surveyor General,
Brun.

N. $89^{\circ} 54'$ W, along T. bdy. Sec. 36.

Pa. $14^{\circ} 40'$ E.

Descend through heavy pine timber
and scattering cedar.

40.20 Intersect $1/4$ sec. cor, which is a
pine stake, properly marked &
witnessed as described by the
Surveyor General.

80.45 Intersect the Cor. of Secs. 1, 2, 35
& 36, which is a pine stake, nearly
decayed, & lying on the ground,
I re-establish this cor. by setting
a lava stone $20 \times 10 \times 8$ ins., 14
ins. in the ground, at the

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chs.

Recurvey, T. bdy, T_p. 23 N. R. 8 E. (C₁)

exact spot where I find the decayed stake, for the cor. of Secs. 1-2-35 & 36, marked with 1 notch on the East and 5 notches on the West sides, and raised a mound of stone 2 1/2 ft. base, 1 1/2 ft. high, W. of cor., from which,

A pine 41 in. diam. bears N. 20° E., 135 lbs. dist. marked T. 23 N. R. 8 E., Sec. 36 D.T.

A pine 18 in. diam. hrs. S. 55° 30' W., 119 lbs. dist., marked T. 22 N. R. 8 E. S. 2 D.T.

A pine 39 in. diam. hrs. N. 69° W., 123 lbs. dist. marked T. 23 N. R. 8 E. S. 35 D.T.

No other trees within limits.

Land, rolling.

Soil, cinders, 4th rate.

Chc.

Recurvey T. bdy. Sp. 23 N. R. 8 E (ctd)

Timber, pine, oak and cedar.

Heavily timbered land, 80.45 chc.

July 25: At this corner, I set off
 $19^{\circ}45' N.$ on the decl. arc, and at
 Obs. 6 m. p.m. l.m.t., I observe the
 Sun on the meridian. The result-
 ing latitude is $35^{\circ}19' N.$

N. $89^{\circ}54' W.$ along T. bdy. Sec. 35.Va. $14^{\circ}30' E.$

Descend over rolling ground,
 through heavy pine timber.

40.22

Fall 7 lbs. N. of $\frac{1}{4}$ Sec. cor, which
 is a pine stake properly marked
 & witnessed as described by the
 Surveyor General.

45.00

Leave pine timber, bro. N. & T.
 Over lava beds.

chs. Resurvey Tddy. Tp 23 N. R. 8 E. (ctd)

80.47 Fall 14 lbs. N. of cor. of Secs. 2-3,
34 & 35, which is a pine stake,
nearly decayed and lying on the
ground,

True course of this mile is West.
Re-establish this corner by
setting a lava stone $15 \times 10 \times 10$ ins
10 ins in the ground at the exact
spot where I find the remains
of the pine stake, for cor. of Secs.
2-3-34 & 35, marked with 2
notches on E, & 4 notches on W.
sides, and raised a mound of
stones $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high,
N. of cor., from which,

A pine 18 ins diam. brs. $\angle 180^\circ$,
189 lbs. dist, marked T. 2 2 N, R. 8 E,
T. 2 Q. T.

A pine 39 ins diam. brs. $\angle 59^\circ$ W.

chs. Resurvey T. bdy. Sp. 23 N. R. 8 E. (ctd)

164 lks. dist. marked T. 23 N. R. 8 E.

T. 34 D. T.

No other tree within limits.

Land, rolling

Soil, cinders, 4' rate.

Timber, pine and cedar.

Heavily timbered land, 45.00 chs.

N. 89° 54' W. along T. bdy. Sec. 34.

Var. 140 40' E.

Over rolling land.

4.00 Enter heavy pine timber, bears
N. & S.

40.20 Fall 8 lks. N. of $\frac{1}{4}$ Sec. cor., which
is a pine post nearly decayed
and lying on the ground. I re-
establish this cor. by setting a
lava stone 20 x 10 x 8 ins. 14
ins. in the ground for $\frac{1}{4}$ sec. cor.

chs.

Recurvey T. bdy. Sp. 23 North. R. & E. (ctd)

on the exact spot where I find
decayed remains of stake in the
ground, marked $\frac{1}{4}$ on N. face,
from which

A pine 24 ins. dia. bro. N. 10° E.

32 lbs. dist. marked $\frac{1}{4}$ S. 34 D.T.

A pine 22 ins. dia. bro. S. 7° W.

47 lbs. dist. marked $\frac{1}{4}$ S. 3 D.T.

80.00

Wagon road, bears N. and S.

80.45

Fall 16 lbs. N. of the cor. of Secs. 3-4-

33 & 34, which is a pine post
partially decayed & lying on the
ground.

True course of this mile is S. $89^{\circ} 59'$ W.

Pre-establish this cor. by setting
a lava stone $24 \times 12 \times 8$ ins., 16 ins.
in the ground, for the cor. of Secs.
3-4-33 & 34, on the exact spot
where I find decayed remains of the

chs. Recurvey I. ldy. T. 23 N. R. 8 E. (ctd)

pine stake; marked 3 notches on the E. and 3 notches on the W. edges, and raised a mound of stone $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.; from which,

A pine 20 ins. dia. bears N. 69° E.
110 lbs. dist. marked T. 23 N. R. 8 E.
I. 34 D.T.

A pine 20 ins. diam. bears S. 51° W.,
80 lbs. dist. marked T. 22 N. R. 8 E.
I. 4 D.T.

A pine 20 ins. diam. bears N. 45° W.,
70 lbs. dist. marked T. 23 N. R. 8 E.
I. 33 D.T.

No other trees within limits
Land, level and rolling.
Soil, cinders, 3rd rate.
Heavy timber, pine.

Heavily timbered land, so. 45 chs.
July 25-1902.

Chs. Recurvey I. bdy. T. 23 N. R. 8 E. (CtD).

July 26-1902, at 7 . . . a.m. l.m.t.
 Set off $35^{\circ}19'$ N. on lat. arc, and
 $19^{\circ}36'$ N. on decl. arc, and determine
 a true meridian with the solar
 at the cor. of Secs. 3-4-33 & 34.

July 26. 1902.

N. $89^{\circ}54'$ W. along I. bdy. of Sec. 33.
 Va. $14^{\circ}30'$ E.

Over level land.

2. 00 Leave timber, bears N.E. and S.W.
 Over open park.

40. 23 Fall 26 lbs N. of $1/4$ sec. cor, which
 is a pine stake properly marked
 and witnessed as described by
 the Surveyor General.

51. 00 Wagon road, bcs. North 15° West.

80. 47 Fall 53 lbs. North of corner of
 Secs. 4-5-32 & 33, which is a

Chc. Recurvey T. bdy, T. 23 N. R. 8 E. (ctd)

sandstone 10 x 8 ins., 8 mi. above ground, properly marked and witnessed as described by the Surveyor General.

True course of this mile is $T. 89^{\circ} 43' W.$

$N. 89^{\circ} 54' W.$ along the South bdy Sec. 32
Va. $14^{\circ} 30' E.$

Ascend, through heavy pine timber.

1. 50 Leave park, and enter pine timber, bears $N. 55^{\circ} E.$

40. 24 Fall 27 lbs North of $\frac{1}{4}$ Sec. cor., which is a pine stake, nearly decayed, lying on the ground, I re-establish this corner by setting a lava stone $15 \times 8 \times 8$ ins. 10 ins. in the ground, at exact point where old stake set for $\frac{1}{4}$ Sec. cor., marked $\frac{1}{4}$ on N. face,

Chs. Recurvey I. bdy. Sp. 23 N. R. 8 E. (Ct#)

and raised a mound of stone,
2 1/2 ft. base, 1 1/2 ft. high, N. of cor.
from which,

a pine 35 ins dia. bears N. 48° E,
40 lbs. dist, marked 1/4 I. 32 B.T.

a pine 25 ins dia. bears S. 28° W.
98 lbs. dist, marked 1/4 I. 5 B.T.

80. 45 Fall 54 lbs. North of the cor. of Sec.
5-6-31 & 32, which is a lava
stone 10 x 6 mi, 8 mi above ground
properly marked and witnessed
as described by the Surveyor
General.

True course of this mile, S. 89° 43' W.

Land, rolling.

Soil, stony, 3rd rate.

Heavily timbered land, 78. 95 chs.

N. 89° 54' W. along South Bdy. Sec. 31.

chs. Resurvey T. Idy. T. 23 N. R. 8 E. (ctd)

Va. $140^{\circ} 30' E.$

Ascend, through heavy pine timber

40.00

Fall 27 lbs. North of $\frac{1}{4}$ Sec. cor,
which is a lava stone 5×6 ins.

8 ins. above ground, properly
marked and witnessed as des-
cribed by the Surveyor General.

78.75

Fall 53 lbs. North of the cor. to
Tps. 22 and 23 N., R. 74 E.,
which is a lava stone 15×12 ins.

12 ins. above ground, properly
marked and witnessed as des-
cribed by the Surveyor General.

True course of this mile, $T. 89^{\circ} 43' N.$

Land, mountainous,

Soil, stony, 4th rate.

Timber, pine and oak.

Heavy timber land. 78.75 chs.

July 26, 1952.

Chs. Retracement of West Bdy. Dec. 6, T. 23 N. R. 8 E.

Oct. 9. 1903. At 7 hr. 4 min. a.m.
l.m.t. I set off $35^{\circ}24'$ N. on lat. arc,
and $5^{\circ}53'$ S. on decl. arc, and
determine a true meridian with
the solar at the C.C. of Decs. 1 and 6.

Oct. 9. 1903.

I commence at closing Sp. cor. of
Decs. 1 and 6, bet. Sp. 23 & 24 N.,
Rs. 7 & 8 E., which is a lava stone
properly marked and witnessed
as described by the Surveyor Gen.
Thence I run,

South along W. bdy. Dec. 6.

Var. $14^{\circ}40'$ E.

Ascend over rolling ground, through
scattering pine and cedar timber.

12 70

Wagon road from Flagstaff to
Grand Canon, bears N. E. & S. W.

Chc. Retracement W. bdy. Sec. 7 - T23N.R10E.

31. 60 Intersect $\frac{1}{4}$ Sec. cor., which is a lava stone, properly marked and witnessed, as described by the Surveyor General.

71. 56 Intersect the cor. to Secs. 6 & 7, which is a lava stone, properly marked and witnessed as described by the Sur. Genl.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine & cedar.

Douth on W. bdy. of Sec. 7.

Va. $14^{\circ}45' E$.

Ascend over rolling ground, through scattering pine timber.

7. 85 Intersect the C. C. to Secs. 1 & 12, which is a lava stone, properly marked and witnessed as described.

chs. Retracement N. by Sec. 7 - T. 23 N. R. 8 E.

- cribed by Surv. Gen
- 40.08 Fall 5 lks N. of $\frac{1}{4}$ Sec. cor, which is a lava stone, properly marked and witnessed as described by Surv. Gen.
- 56.00 Enter heavy pine timber, bears N. E. T. N.
- 80.25 Intersect the C. C. to Secs. 7 & 18, which is a lava stone, properly marked and witnessed and previously set by me and described in my original field notes of the subdivisions of T. 23 N. R. 8 E.
- Land, rolling.
- Soil, stony, 3rd rate.
- Timber, pine.
- Heavy timbered land, 24.25 chs.
- True course of 1st half mile is T. 4' E., 40.08 chs.

Chs. - Retracement N. bdy. Dec. 18 - T23 N.R. 8 E.

Last half mile, S. 4' N, 40.17 chs.

South on N. bdy. Dec. 18.

Tr. 14° 35' E.

Ascend over rolling ground,
through heavy pine timber.

0. 81 Intersect old Dec. cor., which is
a lava stone, properly marked
and witnessed as described by
Surveyor Gen

8. 00 Intersect C. C. to secs. 12 & 13,
which is a lava stone, properly
marked & witnessed.

40. 10 Intersect 1/4 Dec. cor., which is a
pine post, properly marked and
witnessed as described by the
Surveyor Gen.

80. 00 Intersect the C. C. to secs. 18 & 19
which is a lava stone, properly

Chs. Retracement N. bdy. Sec. 19. T. 23 N. R. 8 E

marked & witnessed and previously
set by me and described in my
field notes of Subdivisions of
Tp. 23 N., R. 8 E.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine.

Heavy timbered land, 80 chs.

South on N. bdy. of Sec. 19.

Va. $14^{\circ} 45' E.$

Over rolling land, through heavy
pine timber.

0. 50 Interest old cor., which is a
lava stone, properly marked and
witnessed.

8. 25 Interest the C. C. to Secs. 13 & 24,
which is a lava stone, properly
marked and witnessed.

Chs. Retracement W. bdy Dec. 19-T. 23 N. R. 8 E.

40.45 Fall 7 ebs. W. of $\frac{1}{4}$ Dec. cor.
which is a lava stone, properly
marked and witnessed as des-
cribed by Surv. Gen.

80.05 Fall 4 ebs. W. of cor. to Decs 19 & 20,
which is a lava stone, properly
marked and witnessed as des-
cribed by the Surveyor Gen.

Land, rolling.

Soil, stony, 3rd rate.

Timber, pine.

Heavy timbered land, 80.05 chs.

True course of 1st half mile is

$S. 0^{\circ} 6' E.$, 40.45 chs, and of

last half mile is $S. 0^{\circ} 3' W.$,

39.60 chs.

James A. Sampson
U. S. Deputy Surveyor.

Oct. 9-1903.

LIST OF NAMES.

24

A list of the names of the individuals employed by.....

James A. Rambo

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 *South and West bdy. of T²³ N. R. 8 E.*

Retracement and re-survey

of the Gila and Salt River Base and Meridian, in the Territory of Arizona, showing the respective capacities in which they acted.

Fred C. Roberts....., Chainman.

William H. Lockridge....., Chainman.

....., Chainman.

....., Chainman.

....., Axman.

....., Axman.

William R. Bradley....., Flagman.

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FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted James A. Lamport
United States Deputy Surveyor, in surveying all those parts or portions
of the South and West bdy of the
re-survey and re-tracement of
T. 23 N. R. 8 E.

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

- William Lockridge Chainman. *ex Axman*
- Fred C. Roberts Chainman.
- Chainman.
- Chainman.
- Axman.
- Axman.
- Wm D. Bradley Flagman.

Subscribed and sworn to before me this 15th day
of October, 1903

James A. Lamport
U.S. Deputy Surveyor. Notary Public.

[SEAL.]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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I, James A. Rampart, United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from Hugh B. Price, United States Surveyor-General for Arizona, bearing date of the 30th day of June, 1902, 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 South and

Resurvey and Retracement of the
South and West bdy. of T. 23, N. R. 8, E.

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of the Gila and Salt River Base and Meridian, 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 survey have been established and perpetu-

27 ated in strict accordance with the Manual of Surveying Instructions, t
special instructions of the United States Surveyor-General for Arizo:
and in the specific manner described in the field notes, and that the fo
going are the TRUE field notes of such survey; and should any fraud
detected I will suffer the penalty of perjury, under the provision
an act of Congress approved August 8, 1846.

James A. Sampson

U. S. Deputy Surveyor.

Subscribed and sworn to before me this 15th da
of October, 1903

W. F. Johnson

Clerk District Court

4896b150-8-02

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A P P R O V A L .

Office of the

United States Surveyor General.

Phoenix, Arizona,

November 27, 1903.

The foregoing field notes ~~of the survey~~ of the Resurvey of South Boundary a Retracement of West Boundary of Townshi 23 North, Range 8 East, of the Gila and Salt River Base and Meridian, in the Territory of Arizona, executed by James A. Lamport, United States Deputy Surveyor, under his contract No. 98, dated June 30, 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Sigsbee

U. S. Surveyor General.