

EAST and NORTH B'DY'S.

T. 23 N., R. 8 E.

EAST B'DY

T. 24 N., R. 8 E.

NORTH B'DY

T. 25 N., R. 8 E.

JAMES A. LAMPORT.

1370

No. 1370

BOOK 1370

4-671

FIELD NOTES
GENERAL LAND OFFICE.

ast

LIST OF NAMES.

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

James A. Lumpot

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 *Exterior boundaries*
of Tps 23, 24 and 25 N. Range
18 E., Arizona

BOOK 1370

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.

A. W. Fennel, Chainman.

....., Chainman.

....., Chainman.

John Prout, Axman.

....., Axman.

Lester C. Lampert, Flagman.

1A

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 Exterior boundaries of Tps. 23-
24 & 25 N., R. 8 E. Arizona.

BOOK 1370

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.

Fred C. Roberts, Chainman.

C. W. Desmond, Chainman.

_____, Chainman.

_____, Chainman.

John Pradt, Axman.

_____, Axman.

Lester C. Lamport, Flagman.

Subscribed and sworn to before me this 11th day
of December, 1907

A. M. Finston
Clerk District Court, Notary Public.

[SEAL.]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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I, James A. Lampost, United States
Deputy Surveyor, do solemnly swear that in pursuance of a contract
received from Hugh N. Price, United States
Surveyor-General for Arizona, bearing date of the 30"

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 Ari-
zona, the Manual of Surveying Instructions, and the laws of the United
States, surveyed all those parts or portions of the Eastern

boundaries of Tps. 23, 24 & 25
N. R. 18 E, Arizona

BOOK 1370

of the Gila and Salt River Base and Meridian, in the Territory of Ari-
zona, as are represented in the foregoing field notes as having been sur-
veyed by me and under my direction; and I do further solemnly swear
that all the corners of said survey have been established and perpetu-

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ated in strict accordance with the Manual of Surveying 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.

James A. Sampson

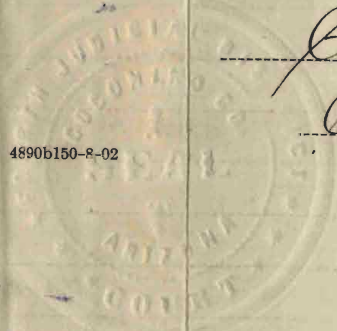
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 11th day
of December, 1907

C. M. Finston

Clerk of the District Court

4890b150-8-02



BOOK 1370

No. 1370

BOOK 1370

110

Field Notes
of the survey of the
East and North Boundaries
of
Twp. 23 North, Range 8 East
East Boundary of
Twp. 24 North, Range 8 East
and
North Boundary of
Twp. 25 North, Range 8 East
of the Gila + Salt River
Base and Meridian
in the Territory of Arizona
as surveyed by
James A. Lamport
U. S. Deputy Surveyor
Under his contract No. 98
Dated June 30, 1902

Survey commenced Aug 11, 1902
Survey completed Sept 28, 1902

BOOK 1370

Survey of E+N. bdy T. 23 N. R. 8 E; East bdy.

Names + duties of assistants

Fred O. Roberts Chairman

Archie McDermid "

John Pradt Axeman

Lester C. Lamport Flagman

BOOK 1370

cut for E
E+N bdy T. 23 N. R. 8 E

29	28	26	24	22	21
6	5	4	3	2	1

cut for E
East bdy T. 24 N. R. 8 E

1	12
2	13
3	24
4	25
5	36
6	4

North Bdy T. 25 N. R. 8 E.

46	45	44	42	42	41
6	5	4	3	2	1

T. 24 N. R. 8 E. + North bdy T. 25 N. R. 8 E.

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East Boundary of

Survey commenced Aug 11, 1902
& executed with a W. L. E.
Sawley Engineers Transit
No 15 with solar attachment. The
horizontal limb is provided
with two double verniers placed
opposite to each other, reading
to single minutes of arc, which
is also the least count of the
verniers of the latitude and
declination arcs.

The instrument was exam-
ined, tested on the meridian
at Phoenix, found cor-
rect, and was approved
by the Surveyor General
for Arizona in spring 1902
I examine the adjustments
of the transit, and correct
the level and collimation

T. 23 N. R & E.

errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during A.M. and P.M. hours, with a true meridian determined by observations on Polaris I proceed as follows
 Aug 11; at the cor Tps 22 + 23 N. bet ranges 8 + 9 East. Latitude $35^{\circ} 19' N.$ longitude $111^{\circ} 28' 09.4''$ at 4^h P.M. l.m.t I set off $35^{\circ} 19' N.$ on latitude arc and $15^{\circ} 21' 22''$ on decl. arc these settings being the nearest practicable to the true minutes + fractions thereof required determine with the solar a true meridian + drive a nail at exact point

East Boundary of

on a pine stake 15ⁱⁿ long
4 ins diam firmly set in
ground 12 ins deep 5 lbs
S. of T₁ cor. to T₂s 22 + 23 N.
R₁ 8 + 9 E.

At 10^h 8th M. day singly
watch which is correct l.m.t.
I observe Polaris at Eastern
elongation, in accordance
with manual of instructions
and mark a point on the
line thus determined on
a plug driven in the
ground 5 lbs N. of my station

Aug 11, 1902

August 12: at 8^h a.m. l.m.t.
I lay off the azimuth of
Polaris 1.29.04" to the west
and mark the ^{true} meridian

Tp. 23 N. R & E.

was determined on the post set Aug 11, on which the true meridian falls 0.6 ins East of the mark determined by solar.

At 8^h 10^m A.M. L. ent. I set off 35° 19' N on the lat. arc; 15° 9' N. on the decl. arc & mark a point in the true meridian determined with the solar

on the post already set 5.00 chs N. of my station this mark falls 0.7 ins East of the true meridian established by the Polaris observation

The solar apparatus by P.M. & A.M. observations defines positions for true meridians respectively about 0' 31" and 0' 36"

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BOOK 1370

East Boundary of
 of the true meridian
 established by the Polaris
 observation; therefore
 I conclude the adjustments
 of the instruments are
 satisfactory.

The magnetic bearing of the
 true meridian at 8 A.M.
 is $15^{\circ} 02' E$; the angle
 thus determined, reduced
 by the table, page 100, gives
 the mean mag. decl. $15' E$.

at this cor. at $12^{\text{h}} 5^{\text{m}}$. 3A

P.M. cont. I set off $15^{\circ} 6' N$
 on the decl. arc and observe
 the Sun on the meridian
 the resulting latitude is
 $35^{\circ} 19' N$. which is the lat.
 nearly

BOOK 1370

Tfr. 23 N. R. & E.

chs
40.00

Set a pine post 4 ins sq
3 ft-long with marked stone
24 ins in ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ S. on W. face
From which

A fine 26 ins diam br N. 60° E.
42 lks dist. marked $\frac{1}{4}$ S. 31 B.T.

A fine 14 ins diam br N. $73^{\circ} 30'$ W. 117 lks
dist marked $\frac{1}{4}$ S. 36 B.T.

50.00

Foot of steep ascent br N. 60° W.

56.30

Leave pines for N. W. + S. E.

70.00

Top of ascent 250 ft-above $\frac{1}{4}$ cor.
br E. and W.

80.00

Bottom of ascent in wash but
two hills course S. W. scattered
pines in wash. Set a cedar
post 3 ft-long 4 ins squared
with marked stone 24 ins in
ground for cor to sec 25, 30, 31
and 36 marked

chs

East Boundary of

T. 23 N S 30 on N. E.

R 9 E. S. 31 on S E.

S. 36 on S W. and

R 8 E. S. 25- on N. W. sides, with
5 notches on N. + 1 notch on
S. edges; from whichA fine 32 ins diam br N. 30° E.
23 lks dist marked T. 23 N.

R. 9 E. S. 30 B. T.

A fine 10 ins diam br S. 58° W.
16 lks dist marked

T 23 N. R 8 E. S. 36 B. T.

A fine 12 ins diam br
N. 60° W. 20 lks dist marked

T. 23 N. R 8 E S. 25- B. T.

Dig a pit 18 X 18 X 12 ins
S.E. of cor. 5 1/2 ft- dist; raise
a mound of earth 4 ft- base
2 ft- high N. of cor.

Land hilly + rolling

August 13. at 7^h 0^m ^{10A}
a. m. l. m. t. I set off $35^{\circ}21'N$
on the lat. arc; $14^{\circ}53'N$ on
the decl. arc. and determine
a true meridian with the
solar. at the cor. of Sec.

19-24-75 and 30 and run

Tfr 23 N. R 8 E.
 class

Soil volcanic cinders.
 Timber fine cedar & pinon
 Mountainous + timber
 80.00 chains
 Aug 12, 1902

North bet sec 25 and 30
 Ascend over volcanic cinders
 through cedar thickets & chichobrus

00.25 Enter timber bet N. E. + S. W.

13.00 Leave timber bet N. E. + S. W.

30.00 Top of hill 600ft above cor.

32.00 Descend N. slope of hill

33.00 Enter timber bet N. E. + S. W.

40.00 Set a fine post 3ft long
 pins eqd with marked stone

24 ins in ground for $\frac{1}{4}$
 sec. cor. marked $\frac{1}{4}$ on N. face

From which

A fine 29 ins diam bet N. 59° E 113.2k

dist marked. S. 30.13°

East Boundary of

chs

✓ a fine 40 ins diam brs N. $86^{\circ}W$ ^{2.8} 23 lks
 dist marked T. 23 N. R. 9 E. S. 23 B. Y.

66.00 Foot of hill 500ft below top brs
 S. H. & N. E.

76.00 Road from Flagstaff to Schultz
 ranch brs N. $45^{\circ}E$ + S. $45^{\circ}W$.

80.00 Set a lava stone 14X10X9 ins
 9 ins in ground for cor to
 sec 19, 24, 25 + 30 marked
 with 2 notches on S. + 4 on N. edges.
 from which

a fine 36 ins diam brs N. $17^{\circ}E$.
 13 lks dist marked T. 23 N. R. 9 E. S. 19 B. Y.

a fine 10 ins diam brs S. $69^{\circ}E$ 78 lks
 dist marked T. 23 N. R. 9 E. S. 30 B. Y.

a fine ¹⁶ 11 ins diam brs S. ⁴⁹ $41^{\circ}W$ ⁵³ 68 lks
 dist marked T. 23 N. R. 8 E. S. 25 B. Y.

✓ a fine ⁸ 8 ins diam brs N. ⁶ $14^{\circ}W$ ⁷² 56 lks.
 dist marked T. 23 N. R. 8 E. S. 24 B. Y.

Land mountainous

T. 23 N. R. 8 E.

dis

soil volcanic cinders
 Pine timber, chico brush, bunch
 grass + mountainous
 80.00 chains

North bet. secs 19 and 24

Over rolling hilly land ^{300. 14° 40' E} + volcanic
 cinders, through pine timber
 chico brush + bunch grass.

Ascend along E. slope Sunset crater.

40.00

At lava stone 18x16x10 ins 12 ins
 in ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on W. face
 from which

A fine 18 ins diameter N. 23° E. 22 lks
 dist marked $\frac{1}{4}$ S. 19 B. T.

A fine ¹⁸ 15 ins diameter ^{59°} S. 72° W. ⁷⁷ 7 lks
 dist marked $\frac{1}{4}$ S. 24 B. T.

63.00

Top of ascent 75-ft above cor
 slight descent

East Boundary of

chs

70.00 Foot of descent 40ft-below top
ascend S. slope of hill.

80.00 Set lava stone 14x10x4 ins 9 ins
in ground for cor secs
13, 18, 19 + 24 marked with
3 notches on S. + 3 on N. edges.
From which,

A fine 37 ins diam br N. $53^{\circ}15'E$ 158
lks dist marked T. 23 N. R 9 E. S 18 B. T.

A fine 20 ins diam br S. $60^{\circ}45'E$
75 lks dist marked T. 23 N. R 9 E. S 19 B. T.

A fine 14 ins diam br S. $40^{\circ}30'$ 284
lks dist, marked T. 23 N. R. 8 E. S. 24 B. T.

A fine ¹⁸ 8 ins diam br N. 72° ⁵⁵⁰ 198
lks dist marked T. 23 N. R 8 E S. 13 B. T.

Land rolling + hilly
Soil volcanic cinder 4 th rate
Timber fine; sage brush,
+ grass + mountainous

80.00 chains Aug 13, 1902

BOOK 1870

August 1st: at 7^h 15^m a.m. ^{14A}
l.m.c. I set off 35° 23' N on the lot arc,
14° 35' N. on the deck arc and
determine a true meridian
with the sextant at the cor. of
Sies. 13-18-19 and 24. and run

T. 23 N. R. 8 E.

chs

		North bet secs 13 and 18, ^{244' 41" E}
		Ascend through pine timber, thick cedar + fir on over volcanic cinders,
	13.00	Top of ascent bet E and W.
	14.50	Descend N. slope of ridge
	32.00	Foot of descent bet E and W.
	40.00	Set a pine post 3 ft long, 3 in ^s - egd with marked stone 24 in ^s in ground
158		for 1/4 sec. cor. marked 1/4 S on
13.7.		W. face. from which
5-E		A fine 10 in ^s diam bore N. 58° 45' E
13.7.		38 lks diet, marked $\frac{1}{4}$ H. S. 18 B.T.
284		
1243		
139.		A fine 11 in ^s diam bore S. 76° 30' W 36 lks
198		diet marked $\frac{1}{4}$ H. S. 13 B.T.
197		
13.7.	62.00	Begin steep ascent of cedar mountain, leave timber bet E + W.
ste	80.00	Set lava stone 15 X 10 X 8 in ^s 9 in ^s in ground for cor sec 7, 12, 13 + 18 marked 4 notches on S. and 2 on N. Edges. raise mound
3,1902		

East Boundary of

of stone 4 ft base 2 ft high
W. of cor. Pits impracticable

This cor. 400 ft above bottom
Land ruts + rolling

Soil volcanic cinders 4th rate

Timber pine, pinon + cedar

Mountainous + timber

80.00 chains

North bet. secs 7 and 12

One ruts land, ^{ru. 140° 35' E} through timber
+ chico brush + cinders

- 8.00 Top of ascent 500 ft high brs NE + SW.
- 9.30 Descend N. slope very steep
- 17.00 Enter timber brs S. E. + N. W.
- 36.00 Foot of descent brs N. E. + S. W.
- 40.00 Set lava clove 18 X 10 X 8 ins, 12 ins
in ground for 1/4 sec. cor.
marked 1/4 on N. face whence
a fine 14 ins diam brs ^{N. 76° E} ~~S. 50° E~~

the Tfr. 23 N. R. 8 E.

✓ 98 108 lks dist marked. $\frac{1}{4}$ S. 7 B. T.

A fine ^{Pine} 12 ins diam br ^{N. 25° W 10} S. 3° W. 26 lks

✓ dist marked. $\frac{1}{4}$ S. 12 B. T.

41.00

Ascend S. E. slope of small black hill

45.00

Top of ascent 60 ft high; gradual descent
over rolling ground through scrub
fine & chico brush

80.00

Set lava stone 24 X 14 X 10 ins, 18 ins
in ground for corsees 1, 6, 7 + 12

marked 5 notches on S. + 1 on N. edges

A fine 6 ins diam br N. 89° 20' E 180 lks

dist marked T. 23 N. R. 9 E. S. 6 B. T.

A fine 10 ins diam br S. 23° 30' E 128 lks

dist marked T. 23 N. R. 9 E. S. 7 B. T.

A fine 8 ins diam br S. 52° W 130 lks

dist marked T. 23 N. R. 8 E. S. 12 B. T.

A fine 8 ins diam br N. 35° W. 44 lks

dist marked T. 23 N. R. 8 E. S. 1 B. T.

Land hilly + rolling
Soil volcanic cinders

18

BOOK 1370

chs

East Boundary of

Timber scrub pine, piñon + cedar.
Mts, chico brush + timber
80.00 chains

North bet secs 1 and 6
over rolling ground volcanic
cinders, through scrub pine
cedar + piñon + thick chico brush.

40.00

Set a lava stone 18X10X8 ins, 12 ins
in ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face; from which
a pine 12 ins diam brs $S. 85^{\circ} E$
13 lks dist marked $\frac{1}{4}$ S. 61 $^{\circ}$ 13 $^{\circ}$ T.

A piñon 12 ins diam brs $N. 83^{\circ} 30' W$ 120 lks
dist marked $\frac{1}{4}$ S. 113 $^{\circ}$ T.

(Note: Before establishing the
N.E. cor T. 23 N. R 8 E. I found
from running a blank line,
from N.E. cor. T. 23 N. R. 7 E, East
along N. 13 lks T. 23 N. R 8 E. I

Tps 23 N. R. & E.

chs

intersected my range line
(E. bdy T. 23 N. R. & E.) at 71.10 chs
from cor. sec 1, 6, 7 + 12, T 23 N.
Rs 8 + 9, E.)

69.00

Ascend hill bcs E + W.

71.10

Set lava stone 24 X 14 X 10 ins, 18 ins
in ground for cor to Tps 23 +
24 N. Rs 8 and 9 East, marked
with 6 notches on each edge
From which

A pine 10 ins diam br N. 83° E 149 lks
dist marked, T 24 N. R 9 E. S. 31 B T.

A pine 6 ins diam br S. 70° E 164 lks
dist marked T. 23 N. R. 9 E S 6 B T.

A cedar 6 ins diam br S 1° 00' W. 166
lks dist marked T. 23 N. R 8 E. S 1 B T.

A cedar 30 ins diam br N. 61° W. 23 lks
dist marked T. 24 N. R 8 E. S 36 B T.

Land rolling

Soil volcanic cinders 4 - 8 ft

20

BOOK 1370

East Bdy T. 23 N. R. 8 E.

Timber scrub pine cedar + piñon
Vegetation Chico brush
Mountainous + timber

71.10 chains

Aug 14, 1902

BOOK 1370

20A

August 15, at 7^h a.m. l.m.t.
I set off $35^{\circ}25'N$ on heliot. arc, $14^{\circ}16'N$
on the deck arc and determine
a true meridian with
the Solar at the cor. of Ho. 23 and 24 N
R 8 and 9 E. and run

North Bdy T. 23 N. R 8 E

Aug 13, 1902

From cor Tho 23 + 24 N. Rs 8 + 9 E.

I run

Best bit secs 1 and 36, $\text{Dip } 14^{\circ} 40' \text{ E}$ Through thick chico brush, + fine
timber cedar and fir onPeak of O'Leary onto brs $75^{\circ} 40' \text{ W}$

39.00

Slight ascent brs N. + S. toward
N. E. slope of O'Leary Mts

40.00

Set lava stone $16 \times 14 \times 4 \text{ ins}$, 10 ins
in ground for $\frac{1}{4}$ sec, cor.marked $\frac{1}{4}$ on N. face; whenceA fine 8 ins diam brs $28^{\circ} 15' \text{ W}$ 72 lks

✓

dip. marked $\frac{1}{4}$ S. 36 B. T.A fine 7 ins diam brs $63^{\circ} 23' \text{ W}$ 121 lks

✓

dip marked $\frac{1}{4}$ S. 1 B. T.

80.00

Set a lava stone $18 \times 14 \times 3 \text{ ins}$ 12 ins
in ground for cor. secs. 1, 2, 35 + 36marked 1 notch out E. + S. on N.
edges, from whichA fine 20 ins diam, brs $21^{\circ} 54' \text{ E}$.

North Boundary of

chs

88 lks dist marked T. 24 N. R. 8 E. S. 36 139.

A pine 20 ins diameter S. 60° 25' E. 143 lks
dist marked T. 23 N. R. 8 E. S. 1 139.A pine 7 ins diameter S 13° 40' W 37 lks
dist marked T. 23 N. R. 8 E. S. 2 139.A pine 6 ins diameter N. 10° W. 64 lks
dist. marked T. 24 N. R. 8 E. S. 35 139.

Land rolling

Soil 4th rate.

Timber fine, cedar + firion

Dense timber 80.00 chs

West bet secs 2 and 35 - ^{20, 14° 41' E}

Over mountainous land

Ascend through chico brush
and fine timber.

25.00

Top of ascent on shoulder of
Oleary peak 300 ft - above sec. cor.
Descend

28.00

Foot of descent 40 ft - below top. Ascend

Tr 23 N. R & E.

- chs
 33.00 Perpendicular rock ledge 50ft high
 brs N and S.
- 35.00 Top of ledge, continue steep ascent.
- 40.00 Set a trap stone 18x18x6 ins, 12 ins
 in ground for $\frac{1}{4}$ sec cor. marked
 This cor. 200ft above bottom.
 $\frac{1}{4}$ on N. face, from which,
 A fine 24 ins diam br N. $36^{\circ}45'N$ 43 lks
 ✓ dist marked $\frac{1}{4}$ S. $35^{\circ}13'T$.
 A fine 16 ins diam br S. $18^{\circ}45'N$ 22 lks
 ✓ dist marked $\frac{1}{4}$ S. $213'T$.
- 54.00 Top of ascent 100ft above $\frac{1}{4}$ sec cor.
 brs N. W. + S. E.
- 58.60 A fine 18 ins diam on line marked
 2 notches on E. and W. sides
- 69.00 Descend
- 77.00 Foot of descent 80ft below top brs N + S.
- 80.00 Set lava stone 14x2x8 ins, 9 ins
 in ground for cor. sec. 2, 3, 34 + 35.
 marked 2 notches on E. + 4 on W. edge.
 From which,

North Boundary of

chs

A pine 6 ins diam br N. 28° E. 17 lks
dist marked T. 24 N. R 8 E S. 33 B. T.

A balsam 6 ins diam br S. 22° 45' E 22 lks
dist marked T. 23 N. R 8 E S. 2 B. T.

A balsam 8 ins diam br S. 38° 20' N 15 lks
dist marked T. 23 N. R 8 E S. 3 B. T.

A balsam 4 ins diam br N. 44° 30' W
14 lks dist marked T. 24 N. R 8 E S. 34 B. T.

Land mountainous

Soil 4th rate.

Timber, pine, fir, spruce, cedar,
balsam + aspen.

Dense timber, chico brush
and mountainous 8000 chains

Next set sec. 3 and 34, on 14° 45' E
through timber, over into land.

11.00 Highest point on slope, descend

26.92 Top of lava cliff br N. + S. 200 ft high

40.00 Set lava stone 26 X 14 X 12 ins, 20 ins

the
T. 23 N. R. 8 E.

in ground for $\frac{1}{4}$ sec cor. marked
 $\frac{1}{4}$ on N. face, from which.

A fine 10 ins diameter S. 57° 15' W, 28 lks
V dist marked $\frac{1}{4}$ S. 3 B. T.

A fine 26 ins diameter N. 48° 10' E 13 lks
V dist marked $\frac{1}{4}$ S. 34 B. T.

5-6. 81 A fine 16 ins diameter line marked
2 notches on E. + W. sides.

77. 3-0 A fine 24 ins diameter line marked
2 notches on E. + W. sides

Descend N. W. slope of mountain

80. 00 Cor. 200 ft below $\frac{1}{4}$ cor. Set lava stone

20 X 16 X 10 ins, 14 ins in ground for cor
secs, 3, 4, 33 + 34 marked

3 notches on E. and W. edges, whence

A fine 8 ins diameter N. 52° 0' E 5-7 lks
dist marked T. 24 N. R. 8 E, S. 34 B. T.

A fine 20 ins diameter S. 30° 20' E 65 lks
dist marked T. 23 N. R. 8 E, S. 3 B. T.

A fine 18 ins diameter S. 42° 7' W 128 lks

BOOK 1870

August 16: at 7^h a.m. ^{26th} m.t.
I set off $35^{\circ}25'N$ on the lat. arc
 $13^{\circ}57'N$ on the decl. arc and
determine a true meridian
with the Solar at the con. f. res.
3-4-33 and 34- and run

North Boundary of

chs

dist marked T. 23 N. R. 8 E. S. 4 B. T.

A fine 8 ins diam tree N. $30^{\circ} 43' W$ 35 lks

dist marked T. 24 N. R. 8 E. S. 33 B. T.

Land mountainous

Soil 4th rate.Timber fine, cedar, piñon, balsam
and aspen.Mts + timber 8000 chains
Aug 15 - 1902West bet secs 4 and 33, Pa. $14^{\circ} 40' E$

Descend N.W. slope of O'Leary peak.

37.00 Foot of same 40ft below sec. cor.

tree N. E. and S.W. Ascend W.
slope of a red mountain.40.00 Set lava stone - 16 X 16 X 8 ins 10 ins
in ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face, from whichA fine 26 ins diam tree S. $34^{\circ} E$ 430 lksdist marked $\frac{1}{4}$ S. 4 B. T.A fine 10 ins diam tree N. $30^{\circ} 5' E$ 459

Tfr 23 N. R 8 E.

chs

- 1/4 \$33 B.T.
 Top of O'Leary peak brs S. 58°30'E
 57.00 Enterdense cedar & piñon brs N. + S.
 69.00 Top of red mt brs N. + S. 300 ft above 1/4 cor.
 73.00 Descend W. slope of mountain.
 80.00 Set lava stone 17x10x8 ins, 11 ins in
 ground for corsees, 4, 5, 32 + 33
 marked 4 notches on E + 2 on W. edges.
 A cedar 17 ins diam brs N. 57°E. 22 lbs
 diet marked T. 24 N. R 8 E. S. 33 B.T.
 A cedar 8 ins diam brs S. 84°E 30 lbs
 diet marked T. 23 N. R 8 E. S. 4 B.T.
 A piñon 6 ins diam brs S. 64°W. 20 lbs
 diet marked T. 23 N. R 8 E. S. 5-13, T.
 A cedar 10 ins diam brs N. 20°W. 104 lbs
 diet marked T. 24 N. R 8 E. S. 32 B.T.
 Low mts, covered with dense growth
 cedar & piñon 23 chs, bal. covered with pine
 Soil 3rd rate,
 Mts and timber 80,000 chs

North Boundary of

chs

- Acct. bet secs 5 and 32.
 Descend W. slope of mountain.
- 20.00 Foot of mt. bre N. + S.
- 25.40 Road from Tuba to Flagstaff bre N. + S.
- 40.00 Set lava stone 13X10X8 ins 8 ins in
 ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on
 N. face. From which
 A piñon 12 ins diam bre S. 55°10'E 193 lks
 dist marked. $\frac{1}{4}$ S. 5-B, T.
- ✓ A cedar 8 ins diam bre N. 10°E 159 lks dist-
 marked. $\frac{1}{4}$ S. 32 B, T.
- 79.15 Road to Tuba from Flagstaff bre N. + S.
- 80.00 Set lava stone 20X12X5 ins, 14 ins in
 ground for cor. rece 5, 6, 31 and 32
 marked 5 notches on E + 1 on W. edges
 A cedar 6 ins diam bre S. 70°30'E 27 lks
 dist marked T. 23 N. R & E. S. 5-B, T.
 A cedar 8 ins diam bre N. 4°W. 62 lks
 dist marked T. 24 N. R & E. S. 31 B, T.
 A cedar 7 ins diam bre N. 70°30'E 63 lks

Tfr 23 N. R 8 E.
the

diet marked T. 24 N. R 8 E. S. 32 B. T.
A cedar 6 ins diam S 303' # 298
lks diet marked T. 23 N. R 8 E. S. 6 B. T.
Land mountainous
Soil 4th rate
Timber dense pine, piñon + cedar,
Mts + dense timber 80, 00 charins

Net bit sees 6 and 31. Ja. 14° 45' E

Through dense cedar + piñon

10.20 a pine 6 ins diam on line marked
2 notches on E. and W. sides

18.77 A pine 5 ins diam on line marked
2 notches on E. and W. sides

19.70 Old Indian ruins.

20.00 Descend 15-ft- to

25.20 Foot of same in wash course N. 45° W.
Ascend

31.50 A cedar 6 ins diam on line
marked 2 notches on E + W. sides

30

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North Bdy T. 23N, R. 8 E.

cls.

- 32.00 Top of ascent 20 ft. above bottom brs N + S.
Descend 10 ft. to
- 36.30 Bottom of descent in wash brs N + S.
Ascend 15 ft. to
- 39.00 Top brs N + S. over rolling ground
- 40.00 Set lava stone 15 X 12 X 10 ins, 9 ins
in ground for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on N. face. from which
A pinon 10 ins diam br S. 85° E
10 lks dist marked $\frac{1}{4}$ S. 61° E.
- ✓ A cedar 6 ins diam br N. 10° E. 35 lks
dist marked $\frac{1}{4}$ S. 31° E.
- 48.70 A cedar 8 ins diam on line marked
2 notches on E + W. sides.
- 77.00 Wash 30 lks wide, 10 ft. deep brs N 30° E
- 78.50 Closing cor. to Tps 23N. Rs 7 + 8 E.
- 5.00 Cor. of Tps 24 N. Ranges 7 + 8 E brs
North 5.70 cls
Land broken & covered with
dense growth of cedars
Soil 4th rate + stony

September 5: at 7^h 00 m. a.m.
 l.m.t. I set off ^{35° 25' N} 35° 25' N. on the lat.
 arc: 7° H' N on the decl. arc
 and determine a true Meridian
 with the solar at dec. of
 Ips. 23 and 74 N. R. 8 and 9 E. and run

East Boundary T. 24 N. R. 8 E.

Timber Cedar + piñon

Mts + dense timber 78, 50 chains
connection diet 5:70 lbs Aug 16, 1902

Sept - 5, 1902

From the cor. Tps 23 and 24 N.

R. 8 and 9 E. I run

North bit sees 31 and 36

Ascend S. slope of ^{9 a. 14° 15' E} cedar hill10.00 Top of ascent 25 ft above Tp. cor.
br. N. 45° W. Descend.29.00 Foot of descent 300 ft below top
br. N. 45° W. broken ground40.00 Set malaprai stone 16x10x10 ins
10 ins in ground for 1/4 sec. cor
marked 1/4 on E. face from which
a piñon 14 ins diam br. S. 19° E. 5-26 lbs
diet marked 1/4 S. 31 B. T.
a piñon 10 ins diam br. S. 41° W. 100 lbs
diet marked: 1/4 S. 36 B. T.

East Boundary of

chs

70.00

80.00

Enter pine timber brs N. 45° E,
 set lava stone 16X10X10 ins, 10 ins
 in ground for cor. recs 25, 30, 31
 and 36 marked 1 notch on S, and
 5 on N. edges; from which
 a fine 10 ins diam brs N. $11^{\circ} 30'$ E 1480 ft
 dist marked T. 24 N. R 9 E S. 30 13 T.
 A fine 16 ins diam brs S. 12° E 2190 ft
 dist marked T. 24 N. R 9 E S. 31 13 T.
 A fine 6 ins diam brs S. $32^{\circ} 29'$ W 126
 ft dist, marked T. 24 N. R. 8 E. S. 36 13 T.
 A fine 12 ins diam brs N. $61^{\circ} 8'$ W
 118 ft dist marked T. 24 N. R 8 E. S. 25 13 T.
 Land mountainous & covered
 with dense chico brush & timber
 Soil 4th rate, volcanic cinders
 Timber cedar, piñon & pine
 Mts & dense timber & chico
 80.00 chains

T. 24 N. R 8 E.

chs

North bet secs 25 and 30
through heavy pine cedar timber

18.00 Pine 18 ins diam on line marked
2 notches on N. + S. sides

34.00 Pine 21 ins diam on line marked
2 notches on N. + S. sides

40.00 Set a malapai stone 20x8x8 ins
14 ins in grd marked 1/4 on N. face
A pine 14 ins diam brs S. 17° E 45 lks
dist marked 1/4 S. 30 B. T.

✓ A pine 23 ins diam brs N. 45° W. 8 lks
dist. marked 1/4 S. 25 B. T.

41.00 Ascend over malapai ledge 10 ft.
high brs E. and W.

43.50 Top of same br E + W.

80.00 Set a malapai stone 16x8x6 ins
10 ins in ground for cor secs
19, 24, 25 + 30 marked 2 notches
on S. + 4 on N. edges, from which
A pine 30 ins diam brs N 23° E 297 lks

chs

East Boundary of

diel marked T. 24 N. R. 9 E. S. 19 B. T.

A pine 27 ins diam br S. $14^{\circ}30'$ E. 50 lks

diel marked T. 24 N. R. 9 E. S. 30 B. T.

A pine 19 ins diam br S. $39^{\circ}30'$ W. 97 lks

diel marked T. 24 N. R. 8 E. S. 25 B. T.

A pine 22 ins diam br N. $8^{\circ}23'$ W. 62 lks

diel marked T. 24 N. R. 8 E. S. 24 B. T.

Land rolling

Soil 4th rate volcanic andusDense cedar, fir, and pine
timber + chick brush 80.00 chs

North bet secs 19 and 24.

Through dense pine, cedar
and fir and timber.
^{N. $15^{\circ}00'$ E.}40.00. Set malapai stone 24 X 14 X 4 ins
18 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face, whence
A pine 10 ins diam br N. 24° E. 84 lks
diel marked $\frac{1}{4}$ S. 19 B. T.

Twp 24 N. R 8 E

chs

A pine 12 ins diam br N. 76° W 43 lks
 dist marked 1/4 T. 24 N. B. T.

42.00

Enter dense cedar + fir
 Leave pines br E. and W.

80.00

Set malpais stone 24x14x10 ins
 18 ins in ground for cor. sec
 13, 18, 19 and 24 marked 3 notches
 on S. and N. edges, from which

A cedar 4 ins diam br N. 72° 33' E 21 lks
 dist marked T. 24 N. R 9 E. S. 18 B. T.

A cedar 5 ins diam br S. 40° 33' E 95 lks
 dist marked T. 24 N. R 9 E. S. 19 B. T.

A fir 10 ins diam br S. 62° 20' W 99 lks
 dist marked T. 24 N. R 8 E S. 24 B. T.

A cedar 5 ins diam br N. 53° 5' W 55 lks
 dist marked T. 24 N. R 8 E. S. 13 B. T.

Land rolling

Soil 4th rate, volcanic cinders

Dense timber, pine, cedar + fir

80.00 chains Sept 5, 1902

BOOK 1370

30A

September 6, at 7^h a.m. - mts.
Shot off 35° 28' N on the lat. arc; 6° 42' N. on
the decl. arc and determine a
true meridian with the solar
at the cor. of Sects 13-18-19 and 24
and run

East Boundary of

1. on line bet secs 13 and 18
Through dense cedar & piñon
- 29.60 Piñon 10 in diam on line marked
2 notches on N + S. sides.
- 40.00 Set malpais stone 32 X 20 X 8 in
24 in in ground for $\frac{1}{4}$ sec or
marked $\frac{1}{4}$ on N. face. from which,
a cedar 9 in diam br N. 80° 10' E 90 ft
distant marked T. 24¹¹ N. R. 9¹¹ E. S. 18 B. T.
- ✓ a cedar 4 in diam br N. 33° 23' 1/2 E 20 ft
distant marked T. 24¹¹ N. R. 8¹¹ E. S. 13 B. T.
- 41.00 Descend
- 72.00 Steep descent
- 78.00 Foot of same 200 ft below cor.
br N. 45° E
- 80.00 Set malpais stone 14 X 12 X 10 in
9 in in ground for cor. secs.
7, 12, 13 and 18 marked 4 notches
on S. + 2 on N. edges, whence
a piñon 6 in diam br N. 70° E

Twp 24 N. R 8 E.

chs

66 lks dist marked T. 24 N. R 9 E. S. 7 B. T.

A cedar 8 ins diam brs S. 33° E 50 lks
dist marked T. 24 N. R 9 E. S. 18 B. T.A cedar 8 ins diam brs S. 80° W. 89 lks
dist marked T. 24 N. R 8 E. S. 13 B. T.A cedar 10 ins diam brs N. 75° W 44 lks
dist marked T. 24 R. 8 E. S. 12 B. T.

Land rolling

Soil 4 ct rate volcanic cinders

Dense timber cedar and pinon

80.00 chains

North bet. secs. 7 and 12,

Through dense cedar + pinon
brs. 14° 40' E4.00 Pine 4 ins diam on line
marked 2 notches on S. + N. sides40.00 Set lava stone 14x10x8 ins, 9 ins
in ground for 1/4 sec. cor. marked
1/4 on W. face, from which
A cedar 6 ins diam brs S. 11° 30' E 20 lks

East Boundary of

chs

- ✓ dist. marked ~~T. 24 N. R 9 E S. 7 B. T.~~^{11/4}
 Cedar 14 ins diam br N. 68° 15' W 117 lks
- ✓ dist marked ~~T. 24 N. R 8 E S. 12 B. Y.~~^{11/4}
 74.30 Cedar 10 ins diam on line marked
 2 notches on N. + S. sides.
- 80.00 Set a malapai stone 24x14x8 ins
 18 ins in ground for cor. recs
 1, 6, 7 and 12 marked 5 notches on S.
 and 1 notch on N. ^{edge} side, from which,
 Cedar 6 ins diam br N. 65° 30' E 46 lks
 dist marked T. 24 N. R 9 E S. 6 B. Y.
 Cedar 8 ins diam br S. 60° E, 82 lks
 dist, marked T. 24 N. R 9 E S. 7 B. T.
 Cedar 6 ins diam br S. 48° 30' W 39 lks
 dist marked T. 24 N. R 8 E S. 12 B. T.
 Cedar 8 ins diam br N. 57° 30' W
 61 lks dist marked T. 24 N. R 8 E S. 1 B. T.
 Land rolling covered with
 dense growths Cedar and firion.
 Soil 4th rate, volcanic cinders

chs Tpr 24 N. R 8 E.

Dense timber 80.00 chains

North bet secs 1 and 6, $12.15^{\circ}00'E$

Through thick cedar and fir
(at cor. secs 1, 6, 7 and 12 I took lat-

itude which I found to be $35^{\circ}31'N$)

Dead Man's Wash. 60 ft wide, course $N. 65^{\circ}00'E$.

Set malapai stone 18X12X8 ins 12 ins
in ground for $1/4$ sec. cor. marked
 $1/4$ on W. face. from which.

A cedar 6 ins diam br $S. 55^{\circ}15'E$ 39 lbs
dist marked T. 24 ^{1/4} N. R. 9 E. S. 6 B. T.

A cedar 8 ins diam br $N. 80^{\circ}W$ 62 lbs
dist marked T. 24 ^{1/4} N. R 8 E S. 1 B. T.

58.46

Intersect 6th standard parallel N.
 $15:25$ Chq. E. of Stand $1/4$ sec. cor. of sec 36. of Tpr

~~24 75 lbs of Standard corner marked
25-N. R 8 E of marked witness and described by
the Surveyor General.~~

Set malapai stone 22X10X5 ins
16 ins in ground for closing
cor. Tpr 24 N. R. 8 + 9 E marked C. C.
on S. with 6 grooves on S. E + W. edges.

40 721

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East Bdy of T. 24 N. R. 8 E.

chs

from which.

A cedar 8 ins diam brs S. 70° E, 42 lks
dist. marked T. 24 N. R. 9 E. S. 6 13 T.

A cedar 6 ins diam brs S. 48° 45' W 40 lks
dist marked T. 24 N. R. 8 E. S. 1 13 T.

Land rolling
soil 4th rate.

Dense timber cedar + fir

58.46 chains

Sept. 6, 1902

BOOK 1370

40A

September 27, at 7^h a. m. l. m. t.

I set off $35^{\circ}31'N$. on the lat. arc. 121's
on the decl. arc and determine

a true meridian with the Solar
at the cor. of $\text{hrs. } 74$ and $75 N$.

$\overline{Rs } 8$ and $9 E$. and run

North Bdy of T. 25 N. R 8 E

Sept 27, 1902

From the cor. Tps 25 + 26 N.
Rc 8 and 9 E. I run,

West bet secs 1 and 36. *Pa. 14 1/2*

40.00

Set a limestone 16 X 12 X 3 ins 10 ins
in ground for 1/4 sec. cor. marked
1/4 on N. face; raise mound of
stone 2 ft base 1 1/2 ft high N. of cor.

65.00

73.80

Pits impracticable.
Wash. 100 lbs bird bears N 5° E

Road from Flagstaff to Tanner
Tanks brs N. 43° E.

80.00

Set a limestone 24 X 12 X 3 ins, 18 ins
in ground for cor. secs 1, 2, 35-
and 36, marked 1 notch on E. and
3 on W. edges, raise mound
of stone 2 ft base 1/2 ft high N. of cor.

Pits impracticable

Land rolling prairie

Soil 4th rate

Timber none

North Boundary of

chs

- 6.50 West bet secs 2 and 35-
Trail from Flagstaff to Tuba
Dm. 140°45'E
bre N. 10° E.
- 40.00 Set a limestone 18X12X3- ins 12 ins
in ground for 1/4 sec cor.
marked 1/4 on N. face, ^{raise} and stone
2 ft base 1 1/2 ft high N. of cor. Pits impracticable
- 72.00 Ascend, 20 ft to sec. cor.
- 80.00 Set a malapai stone 20X8X8 ins
14 ins in ground for cor secs
2, 3, 34 and 35- marked 2 notches
on E, and 4 on W. edges; raise
mound of stone 2 ft base 1 1/2 ft-
high N. of cor. Pits impracticable
Land rolling
Soil 4th rate.
Timber none
-

- West bet secs 3 + 34. Dm 45°
Ascend S. E slope of hill
8.00 Top of ascent 50 ft above sec.

T. 25-N. R. 8 E.
chs

19.00 cor, on ridge bet N + S. Descend
Foot of descent, 30 ft below top
bet N + S. Open prairie.

40.00 Set a malapai stone 14x14x12 ins
9 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; raise
mound of stone 2 ft-base $1\frac{1}{2}$ ft-
high N. of cor. Pits impracticable

80.00 Set a malapai stone 18x8x8 ins
12 ins in ground for cor to sec
3, 4, 33 and 34 marked
3 notches on E + W. edges; raise
mound of stone 2 ft-base $1\frac{1}{2}$
ft-high N. of cor. Pits imprac-
ticable.

Land rolling prairie

Soil 4th rate

Timber none

Sept 27, 1902

North Boundary of

- Set bet sees 4 and 33
 40.00 Set malapai stone ^{2nd 140°40'E} 23X16X12 ins
 17 ins in ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ on N. face raise
 mound of stone 2 ft-base $1\frac{1}{2}$ ft-
 high N. of cor. Pits impracticable
- 73.80 Road from Flagstaff to Tuba
 bet N. and S.
- 80.00 Set malapai stone 24X12X6 ins
 18 ins in ground for cor. sec.
 4, 5, 32 and 33 marked
 4 notches on E. & 2 on W. edges
 Raise mound of stone
 2 ft-base $1\frac{1}{2}$ ft-high N. of cor.
 Pits impracticable
 Land rolling
 Soil 4th rate.
 Timber none
-

T. 25 N. R. 8 E.

cls

- West. bet sees. 5 and 32 $2\frac{1}{4} \times 40^{\circ} E$
- 40.00 Set lava stone $28 \times 12 \times 10$ ins $2 \frac{1}{2}$ ins
in ground for $\frac{1}{4}$ sec. cor
marked $\frac{1}{4}$ on N. face; raise
mound of stone 2 ft - base $1 \frac{1}{2}$ ft -
^{high}
N. of cor. Pits impracticable.
- 41.80 Old road from Flagstaff to
Tuba, brs N. 25° E
- 80.00 Set lava stone $18 \times 12 \times 9$ ins $1 \frac{1}{2}$ ins
in ground for cor. sees 5, 6,
31 and 32 marked 5 notches
on E, and 1 notch on N. edges.
raise mound of stone 2 ft -
base $1 \frac{1}{2}$ ft - high N. of cor.
Pits impracticable
Land rolling prairie
Soil 4th rate
Timber none

September 28. at 7^h 30^m a.m.
l.m.t. I set off $35^{\circ}31'N$ on the lat. arc.
 $10^{\circ}46'S$ on the decl. arc. and
determine a true meridian
with the solar at the cor. of secs.
3-4-33 and 34 and run

chs North Boundary of

- Best bet. secs 6 and 31
- 22.00 Road to Lockett Tank ^{32.14° 115' E} on N. 30° E.
- 40.00 Set malapai stone 16X12X10 ins
10 ins in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on N. face; raise end
of stone 2 ft - base $1\frac{1}{2}$ ft high N.
of cor. Pits impracticable
- 81.20 Intersect Range line 11, 10 chs
S. sixth of cor to Tps 25 + 26 N.
Ranges 7 + 8 E. ^{established in 1894} Set a lava stone
30X12X6 ins 22 ins in ground
for closing cor. to ^{secs 6 + 31} Tps 25 + 26 N.
R & E marked C.C. on E face,
with 6 notches on S. E + N. edges,
raise mound of stone 2 ft - base
 $1\frac{1}{2}$ ft - high E. of cor. Pits
impracticable, I change the
markings on old cor. to corres-
pond to two townships
only.

T. 25. N. R. 8 E.

chs

Land rolling prairie

Soil 4th rate

Timber none

Sept 28, 1902James A. Sampson
U.S. Deputy Surveyor

APPROVAL.

No. 1370

Office of the

United States Surveyor-General,

Phoenix, Arizona.

May 19-1903

The foregoing field notes of the survey of East & North Bds. T. 23 N. R. 8 E. East Bdy T. 24 N. R. 8 E. North Bdy T. 25 N. R. 8 E.

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 30-1902,

having been critically examined, and the necessary corrections and explanations

made, the said field notes, and the surveys they describe, are hereby approved.

Hugh H. Price
U. S. Surveyor-General.