Book No. 1

See Index

Field Notes

OF THE SURVEY OF

1351 The Principal Meridian through Tps. 18 and 17 N.

(See inside) No. 1351

Gila and Salt River Base and Meridian

ARIZONA.

By J. T. Smith *D.S.*

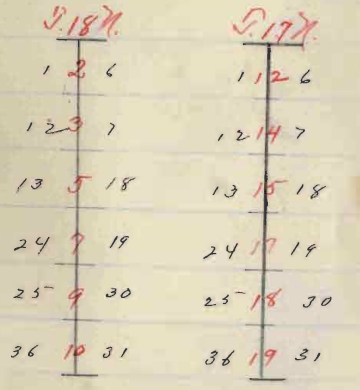
Under contract dated July 24 *1873*

Survey commenced Sept. 5th *1873*

Survey completed Sept. 6th *1873*

See Resurvey of the Principal Meridian, thro. T18N by Hesse (in 1908) this pkge

Prin Meridian through
T 18N R 1E & 1W 1
T 17 " " " " 12



A

Preliminary Oaths of Assistants.

We Gustavus W Richards Willis Funk and John H Cochran Fred A Ward do solemnly swear that we will well and faithfully execute the duites of Chain Carriers; that we will level the chain over 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 Principal Meridian through Tps. 17, 18, 19, 20, 21, 22 and 23 N. and the 5th standard N through Rs. 1, 2, 3, 4 and 5 W. and the 4th standard W through R. 1 W. and the 1st auxiliary meridian through Tps. 21, 22 N. gila and Salt River Base and Meridian Territory of Arizona.

Gustavus W. Richards Willis Funk Chainman.

John H. Cochran Fred. A. Ward Chainman.

Subscribed and sworn to before me, this 4th day of September 1883

John Gardiner
Notary Public.

1B

We Joseph B Lawrence, Edwin D Meeker

do solemnly swear that we will well and truly perform the duties of axeman

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 Principal Meridian through Tps. 17, 18, 19, 20, 21, 22 and 23 N. the 4th Standard N. through R. 1 W. the 5th Standard N. through Rs. 1, 2, 3, 4 and 5 W. and the 1st Auxiliary meridian through Tps. 21 and 22 N. Gila and Salt River Base and Meridian Territiry of Arizona.

Joseph B Lawrence axeman
Edwin D. Meeker axeman

Subscribed and sworn to before me this 4th day of September 1883

John Gardiner
Notary Public.

1C

I do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me and to the best of my skill and ability.

James E Pawley

Sworn to and subscribed before me this 4th day of September 1883

John Gardiner
Notary Public

I do solemnly swear that I will well and truly perform the duties of compassman according to instructions given me and to the best of my skill and ability.

Johnston B McLaughlin
Compassman

Sworn to and subscribed before me this 4th day of September 1883.

John Gardiner
Notary Public

1D

Preliminary Oaths of Assistants.

We Gustavus W. Richards
and William Funk
do solemnly swear that we will well and faithfully execute the duites of Chain Carriers; that we will level the chain over 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 exterior and subdivision lines of Tps. 17 and 18 N. R. 1 W. Tps. 19 N. Rs. 1 and 2 W. Tps. 20 N. Rs. 1, 2 and 3 W. Tps. 21 N. Rs. 1, 2, 3, 4 and 5 W. Tps. 22 N. Rs. 1, 2, 3, 4 & 5 W. Tps. 23 N. Rs. 1, 2 & 3 W. Gila & Salt River Base and Meridian Territory of Arizona.

Gustavus W. Richards Chainman.

Wille Funk Chainman.

Subscribed and sworn to before me, this 4th day of September 1883

John Gardiner
Notary Public.

1E

We Joseph B. Lewkridge and
Edwin D. Meyer [illegible]
do solemnly swear that we will well and truly perform the
duties of Axemen [illegible]

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 Exterior and subdivision
lines of Tps. 17 and 18 N. Rs. 1 W. Tps. 19 N. Rs. and
2 W. Tps. 20 N. Rs. 1, 2 and 3 W. Tps. 21 N. Rs. 1, 2, 3
4 & 5 W. Tps. 22 N. Rs. 1, 2, 3, 4 & 5 W. Tps. 23 N.
Rs. 1, 2 and 3 W. Gila and Salt River
Base and Meridian Territiry of Arizona.

Joseph B. Lewkridge Axman
Edwin D. Meyer Axman
[illegible]

Subscribed and sworn to before me this 4"
day of September 1883

John Gardiner
Notary Public.

1F

BOOK 1351

I do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me and to the best of my skill and ability.

James E Rawley

Sworn to and subscribed before me this 4th day of September 188

John Gardiner
Notary Public

I do solemnly swear that I will well and truly perform the duties of compassman according to instructions given me and to the best of my skill and ability.

Johnston B McLaughlin
Compassman

Sworn to and subscribed before me this 4" day of September 1883.

John Gardiner
Notary Public

1G

Preliminary Oaths of Assistants.

We David N. Weigel

and Frank J. Hardy

do solemnly swear that we will well and faithfully execute the duites of Chain Carriers; that we will level the chain over 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 Exterior and subdivision lines of Tps. 17 and 18 N. Rs. 1 W. Tps. 19 N. Rs. 1 and 2 W. and Tps 20 N. Rs. 1, 2, 3 W. Tps. 21 N. Rs. 1, 2, 3, 4 and 5 W. Tps 22 N. Rs. 1, 2, 3, 4 & 5 W. Tps. 23 N. Rs. 1, 2 and 3 W. Gila and Salt River Base and Meridian Territory of Arizona.

David W. Weigel Chainman.

Frank J. Hardy Chainman.

Subscribed and sworn to before me, this 4th day of September 1883

John Gardiner
Notary Public.

1H

We Tom Oliphant and

David M. Braswell

do solemnly swear that we will well and truly perform the duties of Axemen

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 Exterior and subdivision lines of Tps. 17 and 18 N. R. 1 W. Tps. 19 N. Rs. 1 and 2 W. Tps 20 N. Rs. 1 2 and 3 W. Tps. 21 N. Rs. 1, 2, 3, 4 & 5 W. Tps. 22 N. Rs. 1, 2, 3, 4 & 5 W. and Tps. 20 N. Rs. 1 & 2 & 3 W. Gila and Salt River Base and Meridian Territiry of Arizona.

Tom Oliphant Axman

David M. Braswell Axman

Subscribed and sworn to before me this 4" day of September 1883

John Gardiner
Notary Public.

1G 1I

BOOK 1351

I do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me and to the best of my skill and ability.

James Anderson

Sworn to and subscribed before me this 4th day of September 1883

John Gardiner
Notary Public

I do solemnly swear that I will well and truly perform the duties of compassman according to instructions given me and to the best of my skill and ability.

John C. Smith
Compassman

Sworn to and subscribed before me this 4th day of September 1883.

John Gardiner
Notary Public

1J

Index

Principal Meridian through Tp. 18 N. pages 1 to 11

Principal Meridian through Tp. 17 N. pages. 12 to 20

Survey commenced September 5th 1883

Survey completed September 6th 1883.

No. 1351

The instruments used in making this survey were a Solar Transit made by W. and L. E. Gurley Troy N.Y. which was carefully adjusted and corrected on the true Meridian at Tucson in May 1853 and also examined and put in perfect order before commencing this survey also a Burt's Patent improved Solar compass made by John Roach of San Francisco Cal. and carefully adjusted and compared with the transit and found to be correct

Principal Meridian through
Chains

From the Standard
cor. to Tps. 17 N. Rs. 1 E.
and 1 W. I find a
sandstone 18 x 12 x 12
ins. properly marked and
notched with a mound
of stone alongside.
I run West on a
random line with a
variation of 10° 6' E. setting
temporary ¼ and Sec. Cors.
at each 40 and 80 chs.
and at the cor. to Tps.
18 and 19 N. Rs. 1 E. 1 W.
I make a search for the
cor. and find it to be
125 chains West and 1776 chs.
S. I found the cor. to
be a post 4 ft. long
4 ins. sq. properly

Tp. 15 N.
Chains

marked and notched
laying on the ground
Pits reset post and re-dug
pits and rebuilt the
mound of earth to be
of proper size.
Thence [illegible] along
S. 1° 33' E. on a true
line bet Secs. 1 and 6
Var. 18° 58' E.

22.24 Set a malpais rock 18x9x5
ins 8 ins. in the ground
for 1/4 Sec cor. marked 1/4
on W. face. and
raised a mound
of stone alongside.
Pits impracticable

62.24 Set a malpais 14x10x6
ins 9 ins. in the ground
for cor. to Secs. 16, 7 and
12 marked with 5

The Principal Meridian

Chains

notch on S. and 1
notch on N. edge.
and raised a
mound of stone along side
pits impracticable
Sign. un
Soil 1st. rate
Good grass

S. 7° 03' E. on a true
line bet. Secs. 7 and 12
Va. 10° 55' E.

20.00 Descend about fifty mile canon
34.00 Bottom of canon
lev. S.E. & ascend
40.00 Dig pits 18x11x9 ins 12
ins. in the ground
for 1/4 Sec. Cor. marked
1/4 on W. face and
raised a mound of
stone along side

Chainage Cp. 18 N.

Chainage

	On top of ridge for. E. and W. Pits impracticable.
75.00	Ground abruptly into canon
80.00	Set a malpais rock 24 x 14 x 4 ins 15 ins. in the ground for bor. to Sus. 7.12.13 and 15 marked with 4 notches on S. and 2 notches on N. ridge w. and raised a mound of stone alongside
	Pits impracticable
	Spruce forest
	Soil 2nd. rate
	Scattering cedar
	Grass Sparse

The Principal Meridian

Chains

S. 7° 53' E. on a true line bet. Sec 13 and 18
Var. 10° 58' E.

Sounding

3.50 Bottom of canon bo. E. ascend

20.00 Top of hill Enter dense Cedars

40.00 Set a malpais rock 10x9x8 ins 7 ins in the ground for "4 Sec Cor., marked "4 on W. face and raised a mound of stone along side from which I a Cedar 10 ins. in diam. bo. Br. 58° E. 21 links dist. marked "4 S. B. T. a Cedar 16 ins. in

Township T. 18 N.

Chains

diam. bro. N. 78° W. 27 links dist. marked "4 S. B. T."

68.50 Dry wash 24 links wide lev. E.

80.00 Set a wolfpais rock 16 x 12 x 7 ins. 11 ins in the ground for ter to Secs. 13. 18. 19 and 24 marked with 8 notches on N. and S. edges and raised a mound of stone alongside Pits unprocticable from which a Cedar 12 ins. in diam. bro. S. 86° E. 84 links dist. marked T. 18 N. R. 1 E. S. 19 B. T.
a Cedar 16 ins. in diam. bro. S. 76° E. 104 links dist. marked T. 18 N. R. 1 E. S. 19 B. T.

The Principal Meridian

Chains

Ex other trees within limits
Surface rolling
Soil 1st. rate
Timber country cedar
good grass

S. 7° 33' E. on a true
line bet. Secs. 19 & 24
Va. 10°58' E.

40.00 Set a malpais rock
12x10x8 ins. 8 ins. in
the ground for 1/4 Sec.
Cor. marked 1/4 on N. face
from which a cedar
10 ins. in diam. brs. N. 34° E.
60 links dist. marked
1/4 S. B. T.
A cedar 30 ins. in diam.
brs. S. 20 W. 43 links dist.
marked 1/4 S. B. T.

Through Tp. 18 N.
Chains

72.00 Dismounted into valley leave dense and enter scattering Cedar

80.00 Set a mal pair 18x16x12 ins. 12 ins. in the ground for Cor. to Secs. 19 24, 25 and 30 marked with 2 notches on S. and 4 notches on N. edge. and raised a mound of stone along side. from which a Cedar 16 ins. in diam. bs. S 70 W. 115 links distinguished C. 18 N. R. 1 W. S. 25 B. T. No other trees within limits
Surface rolling
Soil 2nd. rate
Dense Cedar
Good grass

The Principal Meridian

Lains

S. 7°83' E. on a true line
bet. Secs. 25 and 30
Va. 1°06-5' E.

40.00 Set a limestone 18x11x5
ins. 7 ins. in the ground
for 1/4 Sec. cor. marked
1/4 on N. face, and
raised a mound
of stone along side
Pits impracticable

80.00 Set a limestone 18x11x6
ins 12 ins. in the ground
for Cor. to Secs. 25. 30. 31
and 36 marked with
1 notch on S. and 5
notches on N. edges.
and raised a
mound of stone
along side. Pits impracticable
Surface rolling
Soil 2nd. rate
good grass

Through Tp. 15 N.

Chains

S. 7° 03' E. on a true line bet. Secs. 31 and 36
Va. 13° 08' E.

22.30 Dry wash 10 links wide lev. S.W.

27.00 Same wash 15 links wide lev. E.

32.30 Same wash 25 links wide lev. S.W.

38.77 Same wash 60 links wide lev. S.E.

40.00 Set a limestone 17x10x4 ins. 12 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on W. face and raised a mound of stones ~~impracticable~~ impracticable there, descend over mt. ridge

70.00 Sta Sandstone 20x12x6

The Principal Meridian
Chains through Tp. 18 N.

ins. 15 ins. in the
ground for bor. to
Tps. 17 and 18 N. Rs. 1 E. and
1 W. marked with 6
notches on each edge
and raised a mound
of stone alongside
Pits impracticable
Surface broken
Soil 3rd. rate
Scattering cedar
Grass fair

The Principal Meridian
through Tp. 18 N
Chalis

From the Cor. to Tps.
17 and 18 S. Rs. 16 E. and
17 W. just established
by me. I run
S. 7° 23' E. on a true
line bet. Secs. 1 and 6
Va. 10° 0' E.

12.00 Descend abruptly into
Verde valley

28.40 Verde river bluff down
S. and

40.00 Set a limestone
17 x 7 x 6 ins. 12 ins. in
the ground for witness
marked T. 17 S. R. 17 W. C. Sec. 1 W. 1/4 Cor. 6 Sec. 6 links
N. of bank Cor. which
comes in the river
and raised a mound
of stone along side
of it unfor a Chicaffe

The Principal Meridian

Chains

52.10	Leave river bro. S.E. and
	ascend over mt. ridges
61.00	House of John Juby bro.
	N. of line 9 chs.
50.00	Set a malpais rock 14x12x11
	in 9 ins. in the ground
	for cor. to Secs. 16, 15, 21, 22
	marked with 5 notches
	on S. and 1 notch on
	N. edges and raised
	a mound of
	stone along side
	Pits impracticable
	from which a cedar 15
	ins. in diam. bro. S. 78° W.
	71 links dist. marked
	T. 17 N. R. 1 W. S. 12 B.T.
	No other trees within limits.
	Surface mountainous
	Soil 2nd. rate
	Dense growth cedar

Through Tp. 17 N.
Chains

good grass

S. 7°03' E. on a true
line bet. Secs. 7 and 12
Va. 10°55' E.

40.00 Set a mahogany post
20x18x8 ins 15 ins. in
the ground for 1/4
Sec. cor. marked 1/4
on W face and raised
a mound of
stone alongside.
from which a cedar
8 ins. in diam. bears
S. 78° W. 25 links dist.
marked 1/4 S. C. B. T.
Set other trees within limits

8.00 Set a Mahogany 26x22x10 ins. 19
ins. in the ground for
Cor. to Secs. 7. 12. 13 and 18

The Principal Meridian

Chain

marked with 4 notches on S. and 2 notches on N. edge, and raised a mound of stone alongside. Pits inappreciable
Surface mountainous
Soil 2nd. rate
Dense scrubby cedar
Grass fair

S. 73 3 E. on a bent line bet. Sec. 13 and 18
Va. 10°0 8' E.

5.00 Dry wash 15 links wide bet. S.W.

40.00 Set a malpais rock 20x10x8 ins. 15 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 on the face and

Through Tp. 17 N.
Chain

raised a mound
of stone alongside
pit impracticable
from which a cedar
30 ins. in diam. bts.
S. 46° E. 73 links dist. marked
114 S. B. T. No other trees
within limits
80.00 Set a malpais rock
20x17x11 ins. 15 ins. in the
ground for cor. to
Secs. 13. 18. 19 and 24
marked with 3 notches
on N. and S. edges and
raised a mound
of stone alongside
pit impracticable
from which a cedar
12 ins. in diam. bts. S.
70° E. 94 links dist.

The Principal Meridian

Chains

marked T. 17 N. R. 1 E.
S. 19 B. T. No other
trees or other limits
Soil 2nd rate
Surface mountainous
Timber scrubby cedar
Grass fair

S. 7° 03' E. on a true
line bet. Secs. 19 and 24
Va. 13° 05' E.

22.00 Dry wash 10 links wide
bears S. & N.

40.00 Set a limestone 14 x 9 x 6
ins. 9 ins. in the ground
for 1/4 Sec. Cor. marked
1/4 on N. face and
raised a mound of
stone alongside.
Pits Impracticable

Through Sec. 17 Cont.
Chains

from which a cedar
6 ins in diam. bears
S. 85° E. 12 links dist.
marked 14 S.B.T.
No other trees within limits
8000 Set a mahogany rock
20 x 10 x 5 ins. 15 ins. in
the ground for cor.
to Secs. 19.24.25 and 30
marked with 2 notches
on S. and 4 notches
on N. edges. and
raised a mound
of stone along side.
Soil impractica ble
Surface mountainous
Soil 2nd. rate
Scattering scrubby cedar
Grass fair

18-17 BOOK 1351

The principal Meridian

Chains

S. 7°33' E. on a true line bet. Secs. 25 and 30
Var. 13°58' E.

10.00 Leave down and enter scattering cedar

40.00 Set a malpais 18x10x5 ins. 12 ins. in the ground for 1/4 Sec. Cor. Marked 1/4 on W. face and raised a mound of stone along side. Pits impracticable

80.00 Set a malpais rock 24x12x9 ins. 18 ins. in the ground for Cor. to Secs. 25. 30. 31 and 36 marked with 1 notch on S. and 5 notches on N. edges. and raised a mound of stone along side. Pits impracticable

through Tp. 17 N.

Chains

Surface mountainous
Soil 2nd. rate
Scattering scrubby cedar
Grass fair

S. 7° 8' 3" E. on a true
line bet. Secs. 31 and 36
Va. 10° 5-5' E.

40.00 Set a walnut post
20 x 8 x 6 ins. 15 in the
ground for 1/4 Sec. Cor.
marked 1/4 on N. face
and raised a mound
of stone alongside.
Pits impracticable

80.00 The Cor. to Tps. 16 and 17 N. Rs.
1 E. and 1 W.
Surface mountainous
Soil 2nd. rate
Grass fair
Scattering scrubby cedar

The principal Meridian
Chains

I carefully examined the adjustments of my Solar Transit to-day particularly the latitude and traversing apparatus and found them correct

September 6th 1883

For final outlines see Book No. 28

21

U. S. Surveyor General's Office,

Tucson, Arizona, ... *188*

The foregoing Field Notes of the Survey of the

Principal Meridian
through
Townships 17 and 18 North,

Of the Gila and Salt River Base and Meridian, Arizona, executed by J. T. Smith, U. S.
Deputy Surveyor, under his contract of the 24th.
day of July, *188*3, *having been critically examined and the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approve.d*

Robert Johnson
Surveyor General.