

No. 1.

See Index
Field Notes

1508

BOOK 1508

OF THE SURVEY OF THE

*Retracing of the West
boundary*

-OF-

BOOK 1508

1508

Township 19+20 S. Range 13 E.

Gila and Salt River Base and Meridian

1508

ARIZONA.

By *Lewis Wolfley* D.S.

Under contract dated *Apr 11* 1885.

Survey commenced *May 17th* 1885.

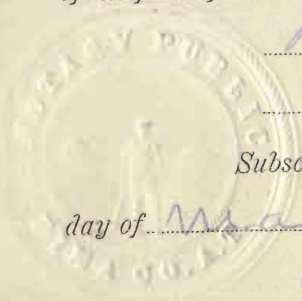
Survey completed *May 18th* 1885.

1A

Preliminary Oaths of Assistants.

We Harry Keen
 and Bernard Jaine
 do solemnly swear that we will well and faithfully execute
 the duties of Chain Carriers; that we will level the chain on
 even and uneven ground, and plumb the tally pins, either
 sticking or dropping the same; that we will report the true dis-
 tance 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 Subdivisions
of Tps 19 + 20 S. R 13 E.

of the principal base and meridian in the Territory of Arizona.



Bernard Jaine Chainman
Harry Keen Chainman

Subscribed and sworn before me, this 14

day of May 1885

Lawrence W. Haggler
 Notary Public

We Thos M^c Sweeney, Wilson R. Ker
W H Wiley, Robt J Bradford

do solemnly swear that we will well and truly perform the
duties of Surveyor and
bound man

at the establishment of corners and other duties according to
instructions given us, and to the best of our skill and ability,
in the service of the exterior and subdivision
of Tps. 19 & 20, R. 13 E

principal base and meridian in the Territory of Arizona.

Wilson R Ker *Ag men*
Robt J Bradford
Thos M^c Sweeney *bound man*
W H Wiley

Subscribed and sworn to before me this 14th

James Walker
1885
Notary Public.

Index.

West bdy. of Sp. 19 S. R. 13 E.
Pages 3 to 15.

BOOK 1508

West bdy of Sp. 20 S. R. 13 E.
Pages 15 to 29.

1 4 6

12 6 7

13 8 18

S. 19 S., R. 13 E.

24 9 19

25 11 30

36 12 31

1 16 6

12 19 7

13 22 18

S. 20 S., R. 13 E.

24 24 19

25 26 30

36 28 31

The instruments used in making
this Survey were,

1st A Solar Compass made by
John Roach of San Francisco
Cal. with the Gurley petz
telescopic attachment.

2^d A Solar Transit made
by Young & Sons of Philadelp
Both instruments were ex
amined & adjusted on the
true Meridian at Tucson
May 15th 1885, and found
to be in good order.

West bdy of Tps. 19 South

The West bdy of Tps 19 + 20 S. Rs. 13 East lies along the low land West of and in the Santa Cruz Valley -

I made a diligent search for Corners along the line, but could find none until I came to the Cor. to Tps 18 + 19 S. R. 12 + 13 E, which is on high ground.

It was therefore necessary to re-establish this line, which I do as follows.

From the Stand. Cor. to Tps. 20 S. Rs. 12 + 13 E, which is a Post in mound of earth, properly marked

Range 13 E.

Chains

and pits of required size
 I run North on a random
 line, setting temporary $\frac{1}{4}$ ac
 Sec. Corners at 40 and 80 ch
 and at 11 miles, 73 chains
 I arrive at a point 280 ch
 East of the Cor. to Tps. 18+19
 S. R. 12+13 E. which is
 stone in a mound of stone
 properly marked.

From which Cor. I run

S. 10° E. on a true line bet.
 Secs 1 & 6.

va 12° 9' E.

32.00 Enter Valley.

33.00 Set a Granite Stone 16x12x8
 ins. 11 ins. in the ground, for

West bdy of Tⁿ. 19 South

Chains

1/4 Sec. Cor. Marked 1/4 on W. face and raised a mound of stones alongside.

37.00 Cross dry Wash Course S.E.

44.00 Cross dry Wash Course E.

These two Washes join together about 15 Chs East.

46.00 Leave Valley

73.00 Set a Granite Stone 22x12x6 in 15 ins in the ground, for Cor. to Sec. 1, 6, 7 & 12. Marked with 1 notch on the N. and 5 notches on the S. edges. and raised a mound of stone alongside, from which a Mesquite Tree 6 ins. in diam bears S. 55° E. 115 Chs dist. Marked T. 19 S. R. 13 E. S. 7. P. 3.

Range 13 East

Chains

A Mesquite tree 10 ins. in diam

bears S. 45° N. 160 links dist.

Marked S. 19 S. R. 12 E. D. 12. B. T.

Surface rolling

Soil 4-7 ft

Grass poor

Scattering Mesquite trees

S. 10' E. on a true line bet.
Secs. 7 & 12.

va. 12° 9' E.

1.50 Cross dry Wash Course S. E.

13.00 Cross dry Wash Course S. E.

18.00 Cross dry Wash Course East

These washes come together about

10 Chs East of the line.

West bdy of T_p. 19 Route

Chains

- 40.00 Set a Granite Stone 20x12x10 in
13 ins. in the ground, for
1/4 Sec. Cor. Marker 1/4 on
N. face and raised a
Mound of Stone alongside.
- 46.00 Cross dry Wash Course E.
- 80.00 Set a Granite Stone 20x14x12 in
13 ins. in the ground for Cor.
to Sec 7, 12, 13 & 18 Marker
with 2 notches on N. and 4
notches on S. edges and
raised a Mound of Stone
alongside - from which
a Mesquite Tree 10 ins. in diam
bears N. 43° E, 135 lks. dist
Marker T. 19 S. R. 13 E. S. 7. P. 5.
A Mesquite Tree 8 ins. in diam.
bears N. 45° W, 145 lks. dist

Range 13 East.

Chains

Marked T. 19 S. R. 12 E. D. 12 B. 9

Surface level

Soil 4" rate

grass poor

D. 10' E. on a true line bet.

Secs. 13 + 18

Va. 12° 9' E.

2650 Cross dry wash Course E.

40.00 Set a Granite stone 16 x 8 x 5 ins

11 ins. in the ground for 1/4

Cor. Marked 1/4 on W. face

and raised a monument of

stone alongside

42.00 Cross dry Wash Course

S. E.

West bay Sp. 19 South

Chairs.

80.00

Set a Granite Stone $12 \times 10 \times 8$
ins. 7 ins. in the ground, for
Cor. to Decs. 13, 18, 19 + 24
Marked with 3 Noctus on
the N. & S. edges, dug pits
 $18 \times 18 \times 12$ ins. in each Dec.
 $5\frac{1}{2}$ ft. dist. and raised a
mound of earth 2 ft. high
 $4\frac{1}{2}$ ft. base alongside.

Surface level

Soil 4th rate

Grass poor

~ ~ ~

S. 10' E. on a true line bet.
Decs. 19 + 24

Va $12^{\circ} 9'$ E.

27.00

Cross dry Wash Course East

Range 13 East

Chains

- 31.00 Cross dry Wash Course East
- 40.00 Set a Granite Stone 15 x 8 x 5 ins
10 ins. in the ground for $\frac{1}{4}$ Sec
Cor. Marked $\frac{1}{4}$ on N. face
and raised a Mound of Stone
alongside.
- 51.00 Cross dry Wash Course East
- 73.50 Cross dry Wash Course N.E.
and over rolling ground.
- 80.00 Set a Volcanic Stone 16 x 10 x 6 ins
11 ins in the ground for Cor
to Secs. 19, 24, 25 & 30 Marked
with 4 notches on N. and
2 notches on S. edges, and
raised a mound of Stone along
side. from which.
A Mesquite Tree 8 ins. in diam.
bears S. 40° E. 30 lks. dist.

West body of Tp. 19 South

Chains

Marker S. 19 S. R. 13 E. O. 30 B.

Surface level

grass poor

Scattering brush

S. 10' E. on a true line bet.
Ores. 25 + 30.

Va 12' 9" E.

40.00 Set a Granite Stone 18x18x8
ins. 12 ins. in the ground
for $\frac{1}{4}$ Sec. Cor. Marked $\frac{1}{4}$ on
N. face and raises a
mound of Stone alongside,
from which

A Mesquite Tree 8 ins. in diam
bears S.W. 65 lks dist.

Marked $\frac{1}{4}$ O. B. P.

2008 1508
Range 13 E.

Chains

42.00 Cross dry Wash Course E

77.00 Cross dry Wash Course E

80.00 At a Granite Stone 14 x 8 x 6 in

9 ins. in the ground for C
to Decs. 25, 30, 31 + 36 Mar

with 5 Notches on N. and

Notch on S. edges, and ran

a mound of Stone along side

Surface level

Soil H. rate

Grass poor

4

S. 10' E. on a true line bet

Decs 31 + 36

va 12° 9' E.

26.00 Cross road from Tucson to Drive ex. br. N.

38.00 Cross a dry wash Course C

BOOK 1533
West bdy of T^h 19 South

Chains

- 40.00 Set a Volcanic Stone 18x12x10
ins. 12 ins. in the ground
for $\frac{1}{4}$ Sec Cor. Marked $\frac{1}{4}$
on N. face, and raise
a mound of Stone along
side and over slightly
rolling ground.
- 80.00 Set a Post 4' $\frac{1}{2}$ ft long 4
ins sq. with marked Stone
12 ins. in the ground for
Cor. to T^hs 19 + 20 S. R. 12 + 13
E. Marked T. 19 S. D. 31 on N.
R. 13 E. D. 6. on S. E.
T. 20 S. S. 1 on S. W. and
R. 12 E. D. 36 on N. W. face
with 6 notches on each edge
dug pits 24x18x12 ins.
lengthwise on each line

Range 13 East.

Chains

N. O. E. + W. of Post 6 ft
 dist. and raises a mound
 of earth 2 1/2 ft high 5 ft. W.
 around Post. from which
 A. Mesquite Tree. 18 ins in diam
 bears N. $28^{\circ}20'$ E. 182 lks. dist

Marker T. 19 S. R. 13 E. O. 31. B.

A. Mesquite Tree 7 ins in diam
 bears O. $25^{\circ}35'$ E 53 lks dist

Marker T. 20 S. R. 13 E. O. 6. B.

A Mesquite Tree. 5 ins. in diam
 bears S. 86° W. 53 lks dist

Marker T. 20 S. R. 12 E. O. 1. B.

Old Baldy Peak of the San
 Rita Mountains bears
 O. $80^{\circ}48'$ E.

San Guyatano Peak bears
 O. $23^{\circ}53'$ E.

West bay of Tp. 19 S. R. 13 E

Chains.

Surface level
Soil & rate
no grass
dense Mesquite brush

I carefully examined the
adjustments of my Solar
Transit today and found
them to be correct
May 187885

The surface along this line
is mostly level, slightly ascen-
ding to the West. There is
a good growth of Mesquite trees
along the Wash, and scattering
trees on the Mesa Lands.

Wash bdy of Sp. 20 S. R. 13 E.

Chains

The soil is poor and there
is but little grass and
no water -



From the Cor. to Sp. 19
20. Rs. 12 + 13 E. just re-
established by me,

I run S. 0. 10 E. on a true
line bet.

Dec. 1. 06.

Na. 12° 9' E.

- 19.00 Enter dry Wash Course E.
- 20.00 Leave dry Wash Course E.

West bdy of Tr. 20 South

Chains

40.00

Deposited a Marker Stone
12 ins. in the ground for $\frac{1}{4}$
Sec. Cor. Aug pits 18x18x12
ins. N. & S. of Stone $5\frac{1}{2}$ ft.
dirt. and raised a mound
of earth $1\frac{1}{2}$ ft. high $4\frac{1}{2}$ ft.
base over it - In N. pit
drove a stake 2 ft. long 2
ins. sq. 12 ins. in the ground
Marker $\frac{1}{4}$ S. on W. face -
& enter dense brush -
from which
a Mesquite tree 8 ins. in diam
bear N. 15° E. 60 links dirt
Marker $\frac{1}{4}$ S. B. T.

43.50

Cross road from Eason to Tubee
bear N.E. & S.W.

44.50

Cross road bear N.E. & S.W.

Range 13 East

Chains

These roads cross about 2 Chs
S.W.

80.00 Set a Post 4 ft. long 4 ins. sq.
with marker stone 12 ins. in the
ground for Cor. to Secs. 1, 6, 7 & 12
marked T. 20 S. S. 6 on N.E. R.
13 E. S. 7 on S.E. R. 12 E. S. 12
on S.W. and S. 1 on N.W. faces
with 1 notch on N. and 5 notches
on S. edges, dug pits 18 x 18 x 12
ins. in each Sec. 5 1/2 ft. dirt
and raised a mound of earth
2 ft. high 4 1/2 ft. base around
post.

Surface level

Soil 4th rate

Grass poor

Shrub brush 40 Chs.

No brush 40 Chs.

West bdy of Tp. 20 South

Chains.

S. 0.10' E. on a true line bet
Dees. 7 & 12.

Va 12° 09' E

40.00

deposited a marked stone
12 ins. in the ground for
1/4 Sec. Cor. Aug pits 18x18
x 12 N. & S. of stone 5 1/2 ft
dist. and raised a mound
of earth 1 1/2 ft. high 3 1/2 ft.
base over it. In N. pit
drove a stake 2 ft. long
2 ins. dia, 12 ins. in the
ground marked 1/4 S. on
N. face. from which
a Mesquite tree 6 ins. in diam
bears S. 48° E. 35 links dist
Marker 1/4 S. B. P.
A. Mesquite tree 10 ins. in diam

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Range 13 East

Chains

bears. $\text{O. } 45^\circ \text{W. } 40 \text{ chs. dist}$
 Marker $\frac{1}{4} \text{ S. B.T.}$

46.00 Post Marker

$\text{O. D. L. } 640 \text{ on S.}$
 $\text{N. W. on N. face } 1 \text{ ch. W}$
 of this point.

63.00 Cross road lens S.E. + N.W.

67.00 Sabino Otero's House + improvement
 near East 4 chs dist from this pt

75.00 Cross road lens N.E. + S.W.

80.00 Set a Post 4 ft. long 4 ins. sq
 with marker stone 12 ins. in
 the ground for Cor. to Secs. 7
 12, 13 + 18 Markers $\text{S. } 20 \text{ S. } 0.7$
 on N.E., R. 13 E., T. 18 on S.E.,
 R. 12 E., T. 13, on S.W., and S. 12
 on N.W. faces with 2 notches
 on N. and 4 notches on

West hdy of T_p. 20 South

Chains

edges, dug pits 18x18x12 in
in each Sec. 5 1/2 ft. dist
and raised a mound of
earth 2 ft high 4 1/2 ft base
around Post. from which
A Mesquite tree 8 ins. in diam
bears S. 45° W. 60 links dist
Marker T. 20 S. R. 12 E. 0. 13. 10. 5
A Mesquite Tree 8 ins. in diam
bears N. 40° W. 45 links dist
Marker T. 20 S. R. 12 E. 0. 12. 10. 5.

Surface level
Soil 3-4 ft
Grass poor
Dense brush

Range 13 East

Chains

S. 10' E. on a true line bet.
Secs. 13 + 18.

Va 12° 9' E.

40.00 Deposited a Marker Stone 12
ins. in the ground for $\frac{1}{4}$ Sec
Cor. dug pits 18x18x12 ins. N. +
of Stone 5 $\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high
3 $\frac{1}{2}$ ft. base over it. In N. pit
drove a Stake 2 ft long 2 in
sq. 12 ins. in the ground. Made
 $\frac{1}{4}$ S. on W. face.

60.00 Clear dense brush.

80.00 Set a Post 4 ft. long 4 ins. sq
with Marker Stone 12 ins. in
ground for Cor. to Secs. 13, 18, 1
+ 24 Marker T. 205, 0.18. on N.
R. 13 E. 0.19 on S.E., R. 12 E

West bay of Sp. Co. South

Chains

24 on S.W. and S. 13 on N.W.
faces with 3 notches on N.S.
edges, dug pits 18x18x12 ins.
in each Sec. 5 1/2 ft. dist.
and raised a mound of earth
2 ft. high 4 1/2 ft. base around
post. from which
a Mesquite tree 12 ins. in diam.
bears S. 41° 5' E. 550 links dist.
Markers S. 20 S. R. 13 E. O. 19. B.T.

Surface level

Soil 2^d rate

Grass fair

Dwarf brush 60 Cts.

No brush 20 Cts.

Range 13 East

Chains

S. 0.10' E. on a true line bet.
Secs. 19 + 24.

Va. $12^{\circ} 9'$ E.

100 Cross road from Tucson to Tubac
bears N.W. + S.E.

40 00 Deposited a marked Stone 12 ins
in the ground for $\frac{1}{4}$ Sec. Cor.
Aug pits $18 \times 18 \times 12$ ins. N. + S.
of Stone $5\frac{1}{2}$ ft. dist. and
raised a mound of Earth $1\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base over it.
In N. pit drove a Stake 2 ft.
long 2 ins. Sq. 12 ins. in the
ground Marker $\frac{1}{4}$ S. on N.
face

50.00 Gastelo's ranch house bears
East abt 15 Chs dist. from
this point -

West body of Tr. 20 South

Chains

50.00

Set a Granite Stone $20 \times 18 \times 14$
ins. 13 ins. in the ground for
Cor. to Secs. 19, 24, 25 + 30
Marked with 4 Notches on
N. and 2 Notches on S. Edges
Dig pits $18 \times 18 \times 12$ ins. in
each Sec. $5\frac{1}{2}$ ft. dist. and
raise a Mount of earth 2
ft. high $4\frac{1}{2}$ ft. base along
side from which

A Mesquite tree 18 ins. in diam.
bears S. 63° E. 65 links dist.
Marked S. 20 S. R. 13 E. 0. 30. 10. 5.

Surface level

Soil 1st to 2^d rate

Grass poor

Dense brush

Range 13 East

Chains

S. 10' E. on a true line bet.
Secs. 25 + 30.

Va 12° 9' E.

20.00 Cross dry Wash Course East
and leave dense brush

35.50 Cross dry Wash Course East.

40.00 Set a Granite Stone 18x18x6 ins.
12 ins. in the ground for $\frac{1}{4}$
Sec. Cor. Marked $\frac{1}{4}$ on W.
face, and raised a mound
of stones alongside, from which
a Mesquite tree 8 ins. in diam.,
bears N. 55° E. 40 links dist.
Marked $\frac{1}{4}$ S. B. T.

67.50 Cross dry Wash Course East.

80.00 Set a Granite Stone 20x14x8 ins.
14 ins. in the ground for
Cor. to Secs. 25, 30, 31 + 36

West body of Tr. 20 South

Chains

Marked with 5 Notets on N.
 and 1 Noteto on S. edges,
 and raised a Mound of Stone
 alongside, from which
 a Mesquite tree 8 ins. in diam
 bears. D. 87° W. 140 links dist.
 Marker T. 20 S. R. 12 E. D. 36,
 B. T.

Surface level
 Soil 40 Chs 1st rate
 Soil 40 Chs 4th rate
 grass poor
 Dense brush 70 Chs.
 Scattering brush 60 Chs.

Range 13 East

Chains

S. $0^{\circ}10'$ E. on a true line bet.
Secs. 31 + 36.

Var $12^{\circ}9'$ E.

8.20 Cross dry Wash Course East

19.50 Cross dry Wash Course East

40.00 Set a Volcanic Stone $22 \times 10 \times 8$
ins., 15 ins. in the ground for
 $\frac{1}{4}$ Sec. Cor. Marker $\frac{1}{4}$ on N.
face and raised a mound of
stone alongside, from which
a Mosquito tree 8 ins. in diam.
bears S. 55° E. 45 links dist.
Marker $\frac{1}{4}$ S. B. T.

57.00 Cross dry Wash Course E.

80.00 Ths. Cor. to Tps 20 S. Rs. 12 + 13
E. from where I started.

Surface level
Soil 4:2 rate

West hdy of T. 20 S. R. 13 East

Grass poor
Scattering brush

All this line except the mile
cut. Secs 31 + 36 is in the
bottom of the Santa Cruz, and
with water good crops could
be raised. Wells could be
drunk to water at no great
depth.

There is a ^{brush} scattering growth
of Mesquite trees & brush
at the south and dense
the balance of the line.

For final notes see Book
No. 4.

U. S. Surveyor General's Office,

Tucson, Arizona, Nov 4th 1885-

The foregoing Field Notes of the Survey of the

Retracing of the West boundary
of Tps 19 and 20 S. R 13 E.

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by Lewis Wolfley

Deputy Surveyor, under his contract of the 11th
day of April, 1885, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved

Rapala Johnson
Surveyor General.