

compared
copied
checked

May 11/19/92
sent to G.L.C. 11/19/92

Survey approved

Feb 28. 1893.

1703

4-671

BOOK 1703

1703

FIELD NOTES

~~GENERAL INFORMATION~~

→ of ←

Portion of Exterior's Tps 21 N. R. 17 W.

" " " Tps 21 N. R. 18

Retracement of S. By. Tps. 22 N. R. 5 E

by Francis B. Jacobs, U. S. D. S.

Under Contract 17, dated

May. 25. 1891

Survey commenced Oct. 15. 1891

" completed April 29. 1892

Preliminary Oaths of Assistants.

We Claud Thompson
and Lee Bond

do solemnly swear that we will well and faithfully execute the duties 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

Retracing of South
boundary of Township 22 North
Range 15 East - North boundary
of Township 21 North Range
14 East Gila and Salt River
Territory of Arizona.

Claud Thompson Chainman.

Lee Bond ^{his} Chainman.

Witnessed by E. J. Babbitt
Subscribed and sworn to before me, this 28

of April 1892



E. J. Babbitt
Notary Public.

Field notes

do of the Resurvey of a portion of
du the

in Exterior Boundaries of
in Township No 21 North

in Range No 17 West

Gila and Salt River
Meridian

in the Territory of
Arizona

As ^{re} surveyed by

Francis B. Jacobs
his Deputy Surveyor

Under his contract No 17

Dated May 25 1891

da Survey commenced October 15th 1891

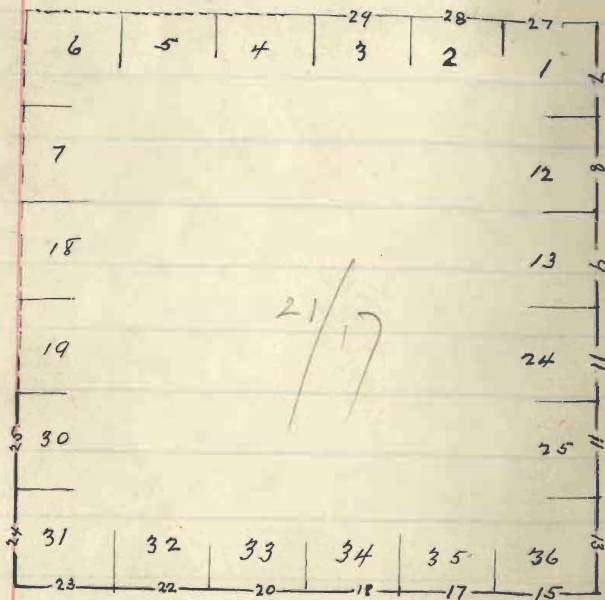
Survey completed October 17th 1891

Names and duties of
Assistants

Carl R. Taylor	Chairman
Joel A. Ripson	Chairman
Miles A. Knapp	Flagman

BOOK 1703

Index T 21 N R 17 W.



Page 48 for
Index for S. Bdy. T. 22 N, R. 5 E

BOOK 1703 3
East Bdry.
Exterior Boundaries T21N R17W

I find that it will be necessary for me to resurvey the exterior boundaries of this Township before I can begin the subdivision. as after two days spent in hunting for a corner and running trial lines I have failed to find the slightest trace of a corner. and Deputy Mineral Surveyor Kearsney who has resided at Kingman for several years tells me that he has at several different times made an especial effort to find the corners and succeeded in finding only the corner to Townships 21 and 22 N Ranges 16 and 17 W. which corner I found by running

4
 Exterior Boundaries T21N R17W

chains

North from the cor. to Secs. 19
 24-25 and 30 on the East boundary
 of township 21 N R 17 W cor
 established by Deputy Surveyor
 Kainsey in the Survey of the
 Kingman townsite

Survey commenced October
 15th 1891 with a Gurley
 Mountain Transit with a
 Burt solar attachment
 at the corner to sections
 19-24-25 and 30 on the
 East boundary of Township
 21 N. Range 17 W. in Lat.
 $35^{\circ} 8' N$ Long. $113^{\circ} 59' W$ at
 $5-12^{m}$ a.m. I take an

Exterior Boundaries T71N R17W

chains

Observation on Polaris and
find the magnetic bearing of
the star to be $N 5^{\circ} 4' W$

Correct local mean time of

Observation Oct 14

17.12

Tabular time U.C. of Polaris

Oct. 15 1891

11.42.0

Reduction for 1 day add

3.93

Local mean time U.C. of Polaris Oct 14th

11.45.93

Which taken from time of observation

Leaves hour angle of Polaris

5.26.07

Azimuth of Polaris Oct. 35

1.32

North End of Needle

 $15^{\circ} 04'$

the difference is the var

 $13^{\circ} 32' E$

I lay off the azimuth to the
East and drive a picket
on the line thus found. 300
North of the cor.

6
 Exterior Boundaries of T21N R17W

chain

I begin at the cor. to Secs
 19-24-25 and 30 on the East
 boundary of T21N R17W
 which is a post 4 ins
 square marked T21N S 19 on NE
 R16W S 30 on S.E. R17W S 25
 and S. W. and S 24 on N.W. faces
 with 4 notches on N. and
 2 notches on S. edges. with
 Pits in each section and
 mound of earth and stone
 around Post. - Thence I run
 North on a random line
 bet Tps 21N R 16 and 17 W
 setting temporary half mile and
 mile corners. at 40 and 80. ch
 and at 4 miles. and 2 5/8's
 I find the cor. to Tps 21 and
 22N Rs 16 and 17 West

Exterior Boundaries T21 N R17 W

chains

on my line.

From the cor to Tps 21 and
22 N R 16 and 17 W which
is a post set and
marked as described in the
field notes furnished by the
Surveyor General.

I run

South on a true line bet
Trees 1 and 6-

var $13^{\circ} 32' E$

- 40.25 set Malpais stone $18 \times 14 \times 10$ ins
12 ins in the ground for $1/4$ sec cor
marked $1/4$ on W side dug pits
 $18 \times 18 \times 12$ ins N and S of stone $5 1/2$
ft dish and raised mound of
earth and stone $1 1/2$ ft high
 $2 1/2$ ft base along side
- 80.25 set Malpais stone $16 \times 12 \times 8$ ins

Exterior Boundaries T21N R17W

chains

8 ins in the ground for cor to
 Secs 1-6-7 and 12 Marked with
 1 notch on N and 5 notches on
 S edges dry pits 18x18x12
 ins in each sec. 5 1/2 ft dist
 and raised mound of stone and
 2 ft high. 3 ft base
 earth, along side
 Land slightly rolling
 Soil 2nd rate
 No timber

South on a true line but Secs
 7 and 12

Var 13° 32' E

+ 0-00

Set Malpais Stone 15x10x8 ins.
 8 ins in the ground for 1/4 Sec Cor
 Marked 1/4 on W side. dry pits
 18x18x12 ins N and S of stone
 5 1/2 ft dist and raised

Exterior Boundaries T₂₁N R₁₇W

mound of earth and stone 3 ft high 3 ft base along side.

- 80 - 00 ✓ Set Malpais stone 12 x 8 x 6 in 6 in in the ground for cor to sec 7-12-13 and 18 Marked with 2 notches on N. and 4 notches on S edges and dug pits - 18 x 18 x 12 in in each sec. 5½ ft dist. and raised mound of earth and stone 2 ft high 3 ft base along side.
- Land level
Soil & ud rate -
No timber.

South on true line bet sec 13 and 18
Var 13° 32' E.

0 - 48 Beal road In Eand Pt.

10 - 00 Set Malpais stone 18 x 8 x 6 in 12 in in the ground for ¼ sec cor marked

Exterior Boundaries T21N R17W

Chains $\frac{1}{4}$ m N. side Dug pits 18 x 18 x 12 in
N. and S. of stone $5\frac{1}{2}$ ft dist. and
raised mound of earth and stone
2 ft high 3 ft base alongside.

70-00 Leave Hualapai Valley - Ascend

80-00 Set foot 4 ft long 4 in square 12
in in the ground for cor to sec
13-18-19 and 24 marked T21 N
S 18 m N.E. R 16 W. S. 19 m S.E.
R 17 W. S 24 in S.W. and S 13 m
N.W. faces. with 3 notches on N
and S edges and dug pits 18 x 18 x 12
in in each sec. $5\frac{1}{2}$ ft dist and
raised mound of stone and earth
 $1\frac{1}{2}$ ft high 3 ft base around foot.

Land rolling
Soil sand and silt
No timber.

Exterior Boundaries S 2 1/2 N B 17 W

chains

South on true line bet recs 19th and 24th 72
 Var. 13° 32' E

7-40 Top of a table mountain 200 ft high

21-00 Descend

40-00 Set Malpais stone 16x12x18 in 8 in in
 the ground for 1/4 sec cor marked 1/4 on
 N. side and raised mound of stone
 2 ft high 3 ft base alongside
 Pile impracticable.

51-00 Wash course S.E. Ascend

55-00 Top of ascent - Descend

80-00 Cor to recs 19-24-25 and 30 as
 above described

Land hilly

Soil 4th rate

No timber.

South on true line bet recs 25 and 30
 Var 13° 32' E.

Exterior Boundaries S 21 N R 17 W

chains

- 1-05 Atlantic & Pacific Railway
br S 65° E and N. 65° W.
2. 00 Western Union Telegraph line
runs parallel with railway
5. 00 Wire fence br N. 60° W. and S. 60° E.
- 12-00 Wire fence br N. 30° E and S 30° W.
- 40-00 Set Malpais stone 16 x 8 x 6 in &
8 in in the ground for 1/4 sec cor.
marked 1/4 on N. face raised mound of
stone 2 ft high 3 ft base along side.
Pits infracticable.
- 5-4-40 Trail br S 20° E and N. 20° W
- 5-6-00 Descend
- 80-00 Set Malpais stone 24 x 16 x 10 in
& 8 in in the ground (rock prevented
setting deeper) for cor. to sec 25-30
31 and 36. Marked with 5 notches
on N. and 1 notch on S edges and
raised mound of stone 3 ft high

Exterior Boundaries T 21 N R 17 W S. E

Chains

5-ft base along side.

Pits - impracticable.

Land level and rolling

Soil 2nd and 3rd rate -

No timber.

Southern true line bet sec 31 and 36

Var $13^{\circ} 32' E$.

- 00 Bottom of cañon course N. $80^{\circ} 9'$. Ascend
- 20 Perpendicular bluff 20 ft high.
- 4-75 Top of cañon wall
- 9-00 Descend
- 1-00 Bottom of cañon 75-ft def course N.
Ascend.
- 3-00 Top of cañon wall.
- 34-00 Descend.
- 38-50 Bottom of cañon course N. W. Ascend
- 40-00 Set Malpais stone $26 \times 10 \times 8$ in 10 in
in the ground for $1/4$ sec cor marked

Exterior Boundaries T21 N R 17 W
chains

- 1/4 on N. side and raised mound of stone 2 1/2 ft high 4 ft base along side.
Pits infracticable.
- 45-00 Top of caum wall
- 63-00 Descend
- 65-00 Top of rock wall 60 ft high on E. and N.
- 72-00 Bottom of caum 200 ft deep course N.
- 80-00 Selg granite stone 18x10x8 in 12 in in the ground, for standard corner to Tfr 21 N. Pgr. 16 and 17 N. Marked with 6 notches on N. E. and N. edges and raised mound of stone 2 1/2 ft high 4 ft base along side.
Pits infracticable.
Land broken
Soil 4th rate
No timber.

October 15th 1891

Exterior Boundaries T 21 N R 17 W

chem

From the standard cor. to Tfs
21 N Page 16 and 17 W. I run West
along the S boundary of sec. 36.

Var $13^{\circ} 32' E$.

Descend

1-5-0 Rock Pluff 20 ft high.

1-75- Enter small valley on S.E. and N.W.

10-00 Wash 30 lbs wide course N 60° W.

Ascend

18-00 Top of ascent - half way up the N.W.
slope of ridge 200 ft above valley

Descend

26-00 Reenter wash

39-80 Leave wash course N.W.

40-00 Set red boulder $16 \times 10 \times 8$ in size
in the ground for standard $1/4$ sec
cor. marked S. C. $1/4$ on N. side
and raised mound of stone 2 ft high
3 ft base along side. Pits unfracturable

Exterior Boundary S 21 N R 17 W

cañon	Ascend	
48-00	Top of ascent	
53-00	Descend	
57-00	Descend cañon wall 40 ft high	
59-00	Bottom of cañon course N. 20° W.	
	Ascend.	9-
62-00	Top of cañon wall	
71-00	Top of ridge bet N. and S. Descend	16
74-00	Gulch course N. Ascend	24
80-00	Set on fair stone 36 x 16 x 10 in 10 in in the ground (rock prevented setting deeper) for standard cor. to sec 35 and 36 - marked S. C. with 1 notch on the E. and 5 notches on N. edges and raised mound of stone $\frac{1}{2}$ ft high 4 ft dian around stone.	3 3 4
	Pits intractable.	
	Land rough and broken	5
	Soil 4 th rate	7

Exterior Boundaries T 21 N R 17 W

Name

No timber

5-E
892

West along S. boundary of sec 35-
Var $13^{\circ} 32' E$.

Ascend

5-0 Top of ridge in SE and N.W.

Descend

-00 Head of gulch course N.W. Ascend

-80 Top of Malpais capped butte 500 ft high
Descend

7-00 Foot of butte.

8-00 Set granite-stone $18 \times 12 \times 8$ in 12 in in
the ground for standard $1/4$ sec cor.

Marked B.C. $1/4$ on N side and
raised mound of stone 2 ft high
3 ft base along side Pts impracticable
Ascend

3-01 Top of ascent Descend

1-00 Washcourse $N 20^{\circ} W$

Exterior Boundaries 22/20 N 17 W

8000 set Malpais stone 36x16x6 ins
 12 ins in the ground (rock
 prevented setting deeper) for
 standard cor. to Secs 34 and
 35 marked S.C. with 2 notches
 on E and 4 notches on N edges
 and raised mound of stone 3 ft
 high 5 ft base along side
 Pits impracticable
 Land hilly and rough
 Secs 4th rate
 No Timber

Nest along the S boundary
 of Sec 34

Var 13° 32' E

ascend

1800 Top of ascent overlooking
 Atlantic and Pacific Railway

Exterior Boundaries S 21 N R 17 W

Chain	
	bridge No 679. Descend
26	Western Union telegraph line runs parallel to Railway
27-30	Atlantic and Pacific Railway brs N 42° E and S 42° W.
30-50	Road brs N-E. and S W. bottom of descent
40-00	Set Malpais stone 16x14x6 ins 8 ins in the ground for standard 1/4 sec. cor. Marked S.C. 1/4 on N side and raised mound of stone 2 ft high 3 ft base along side. Pits impracticable
60-00	Dry Wash less lvs side course S 60° W
74-00	ascend gravel hill
75-50	Top of hill 3 ft high
80-00	Set Malpais stone 24x12x8 ins 18 ins in the ground for standard cor to Secs 33 and 34 marked S.C. with 3 notches on E and W edges and raised mound of

592

Exterior Boundaries $\frac{1}{2}$ N $\frac{1}{2}$ 12/7 W
chains

stone 3 ft high $4\frac{1}{2}$ ft base
along side pits impracticable
Land selling
Soil 3rd and 4th rate
No timber

West along the S boundary
of sec 33.

Var 13-32 E

- 1-00 Dry wash Course S W
16-00 Ravine course S 25° E
40-00 Set Malpais stone 20 x 12 x 4 ins
15 ins in the ground for standard
 $\frac{1}{4}$ sec cor marked S.C. $\frac{1}{4}$ on
W side and raised mound
of stone $2\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base
along side pits impracticable
43-00 Ascend steep granite

Exterior Boundaries T21 N16.17 W

chain

ridgr

54.00 Top of first spur.

59.00 Top of Main ridgr bn S70°E and N70°W

Descend into Sacramento
valley.

67.00 Bottom of steep ridgr

80.00 Set Granite stone 28x14x6 ins

21 ins in the ground for standard

cor to sees 32 and 33 marked

S.C. with 4 notches on E and

2 notches on W Edges

dug pits 18x18x12 ins. N-

E- and W of stone 5½ ft diam

and raised mound of earth

and stone 2½ ft high 4½ ft

base along side.

Land hilly and rolling

Soil 3rd and 4th rate

No timber

592

Exterior Boundaries T71 N R 17 W

chains

West along S boundary of
Sec 32.

Var $13^{\circ} 32' E$

40-00

Set Malpais stone $24 \times 12 \times 6$ ins
18 ins in the ground for standard $\frac{1}{4}$.
Sec cor. Marked S.C. $\frac{1}{4}$ on N side
dug pits $18 \times 18 \times 12$ ins. E and W of stone
 $5\frac{1}{2}$ ft dist and raised mound of
earth and stone 2 ft high 3 ft base
alongside - P

80-00

Set Malpais stone $20 \times 12 \times 8$ ins 15 ins
in the ground for standard cor to secs
31 and 32. Marked S.C. with 5-
notches on E and 1 notch on W. edges
dug pits $18 \times 18 \times 12$ ins N. E. and W. of
stone $5\frac{1}{2}$ ft dist and raised mound
of earth and stone $2\frac{1}{2}$ ft high $4\frac{1}{2}$ ft
base alongside.

Land rolling

Exterior Boundaries T 21 N R 17 W

chains

and 3rd
Soil 2nd rate
to timber

5-E
592

West along South boundary of sec 31.
Var 13° 32' E.

40-00 Set Malpais stone 26x14x12 in 18 in
in the ground for standard 1/4 sec
cor marked S. C. 1/4 on N. side. Dug
fils 18x18x12 in E. and W. of stone 5 1/2 ft
dist and raised mound of earth and
stone 2 ft high 3 ft base along side.

80-00 Set Malpais stone ^{10 ins. in the ground} 16x10x8 in for stan-
dard cor. to T. 21 N. Rgs 17 and 18
W. Marked with 6 notches on N. E.
and W. edges Dug fils 24x18x12 in
cross wise on each line N. E. and W
of stone 6 ft dist. and raised mound
of earth and stone 3 ft high 5 ft base
along side.

West Bdry.
Exterior Boundaries T21N R17W

chain

Land level
Soil 1st and 2nd val-
to timber.

From the standard cor to Tfr 21
N. Pgs 17 and 18 W. I run -
Thence North bet secs 31 and 36
Var 13° 32' E

- 29-00 Wash 40 lbs wide course N.W.
- 40-00 Set Malpais stone 28x14x10 ins
20 ins in the ground for 1/4 sec cor
Marked 1/4 on N. side dug pit - 18x18
x12 ins N. and S of stone 5 1/2 ft dia
and raised mound of earth and
stone 2 ft high 3 ft base along side
- 59-00 Rocky wash course S 65° W.
- 80-00 Set Malpais stone 16x14x10 ins 8 ins
in the ground for cor to secs 25-30-
31 and 36 marked with 5 notches

Exterior Boundaries 24 25 26 27 28 29 30
chains

on N. and 1 notch on S edges and
raised mound of stone 2 ft high 3 ft
base alongside. Pits impracticable.

Land rolling
Soil 2nd rate.
No timber.

North bet sec 25 and 30

Var $73^{\circ} 32'$ E

18-00 Set Malpais stone $24 \times 8 \times 4$ ins 18
ins in the ground for $\frac{1}{4}$ sec cor.

marked $\frac{1}{4}$ on N. side and raised
mound of stone 2 ft high 3 ft base
alongside. Pits impracticable.

0-00 Set Malpais stone $20 \times 10 \times 8$ ins. 15-
ins in the ground for cor to sec 19

24-25 and 30 marked with 4
notches on N. and 2 notches on S
edges and raised mound of stone

Exterior Boundaries T21 N R17 W

2 ft high 3 ft base along side.

Pits impracticable

Land rolling

Soil 3rd rate

No timber.

October 16th 1891

The land from its above cor.
North is very rough, deserty
and barren and unfit for
cultivation therefore I
discontinue the survey of
the West boundary of T21 N
R17 W at the cor to Secs
19, 24-25 and 30

North Bdry 1703

Exterior Boundaries 21 NR 17 W

chain

From the corner to townships 21 and 22 N R's 16. and 17. W.

I run

BOOK 1703

789.56' on a true line bet Secs 1 and 36

Var 13-32' E

2.70 Ravine course S. E.

7.65 Kingman and Steerston Hill Road bro N and S

40.00 Set Malpais stone 24x16x6 ins 18 ins in the ground for 1/4 sec cor marked 1/4 on N side

raised mound of stone 7 ft high 3 ft base along side its impracticable

70-00 Leave Hualapai valley Ascend

70-00 Set Malpais stone 24x14x8 ins 18 ins in the ground for cor to Secs

Exterior Boundaries T21 N R17 W

chains

1-2-35 and 36 marked
 with 1 notch on E and 5 notches
 on W edge and raised mound of
 stone 2 ft high 3 ft base
 alongside Pits impracticable
 Land rolling
 Soil rocky 3rd rate
 No timber

N 89° 56' W on a true line
 bet secs 2 and 35

Var 13° 34' E

Ascend

19-00 Top of rock Butte 400 ft high

31-00 Descend

40-00 Reel Malpais Stone 18x12x6 ins
 12 ins in the ground for 1/4 sec cor
 marked 1/4 on N side and raised
 mound of stone 2 ft high 3 ft base

Exterior Boundaries I 21° N R 15° W S. E

chain

- along side Pits impracticable 592
- 45-00 Gulch course S. E. Ascend
- 74-00 Top of Malpais ridge 700 ft high
 by S. E. and N. W. Descend
- 80-00 Set Malpais stone 20x14x12 ins
 15 ins in the ground for cor to Des
 2-3-34 and 35 marked with 2
 notches on E and 4 notches on
 West edge and raised mound
 of stone 2 ft high 3 ft base along side
 Pits impracticable
- Land mountainous
 Soil rocky +th rate
 No Timber

N 89° 56' W on a true line
 but sees 3 and 34

var 13° 32' E

14-40 a spring branch Water

Exterior Boundaries 1217N 1217W

chains

raises 2 chs north of line
and flows S.

Ascend

29-00 Top ascent on N slopes of ridge
Descend

40-00 Set Malpais stone 24x16x12 ins
18 ins in the ground for $\frac{1}{4}$
See cor marked $\frac{1}{4}$ on N side
and raised mound of stone
2 ft high 3 ft base alongside
Pits unpracticable

44-00 Bottom of ridge

55-00 Descend

80-00 Set Malpais stone 24x14x16
ins 18 ins in the ground for
Corto sees 3-4-33- and 34
Marked with 3 notches on E and W
edges and raised mound of
stone 2 ft high $3\frac{1}{2}$ ft base

Exterior Boundaries N 71° N R 17 W

chain

along side pits impracticable
Land hilly and broken
Soil rocky 4th rate
No timber

October 17th 1891

7 miles and 10 chains of these lines run over ^{Marion} ~~Marion~~ ^{Land.} ~~Land.~~

The land west of this corner
is rough and rocky and
unfit for cultivation.

Therefore I discontinue the
North boundary line at the
above corner to Secs
3-4-33 and 34.

Through the resurvey of these
lines I found no trace of
the original corners.

Francis B Jacobs

U.S. Deputy Surveyor

Field Notes

of the resurvey of the
Exterior Boundaries

of Townships No 21 North
Range 4 East

of the
Gila and Salt River
Meridian

in the
Territory of
Arizona

as resurveyed by
Francis B Jacobs
U S Deputy Surveyor

Under his Contract No 17

dated May 25th 1891

Survey commenced April 28th 1892

Survey completed April 28th 1892

*Names and duties of
Assistants*

Clod Thompson Chairman
Lee Bond Chairman

Index.

	42	44	
3	2	1	39
			12
			57

Exterior Boundaries T21 N R4 E

5-E

ains

Survey Commenced April 28th 1892 - with a Gurley Mountain Transit with a Best Solar Attachment at the Cor to Secs 7-12-13 and 18 on the East boundary of Township No 21 North Range No 4 East in Latitude $35^{\circ}10' N$ Longitude $111^{\circ}52' W$ at 4.40 a.m. I take an observation on Polaris and find the Magnetic bearing of the star to be $N 13^{\circ}39' W$

Correct local mean time of observation April 27. 16.40

Tabular time U.C. of Polaris May 1st 1892 22.34.0

Reduction for 4 days $3.92 \times 4 = 15.87$ add 15.7

Local mean time U.C. of Polaris April 27. 22.49.7

Which taken from time of observation leaves hour angle of Polaris 17.50.3

592

Exterior Boundaries T₂ N₂ R₄ E

ains

in the field notes furnished
by the Surveyor General
Thence I run
North. bet Secs 7 and 12
Var. $15^{\circ} 12'$ E

-50 Descend low ridge to S E and N W

-00 Bottom of ridge. Thence
Ascend gently

0-00 Set post 4 ft long 4 ins diam
24 ins in the ground for $\frac{1}{4}$ sec
Cor marked $\frac{1}{4}$ on N face and
raised mound of stone $\frac{1}{2}$ ft high
 $2\frac{1}{2}$ ft base around post

From which an Oak 18 ins diam

br S $53^{\circ} 00'$ E 43 lvs dist marked $\frac{1}{4}$ S. B. T.

A Pine 36 ins diam br S $63^{\circ} 00'$ W

80 lvs. dist. marked $\frac{1}{4}$ S B. T.

-00 Set post 4 ft long $4\frac{1}{2}$ ins square
24 ins in the ground for Cor to Sec

5-E
392

Exterior Boundaries T21 nR4 E

chains

Subtract from	23-56-
Argument for table II	6-05.7
Azimuth of Polaris Feb 35	1-33
North end of Needle	13-39
The Sum is the variation	15°-17' E

I lay off the Azimuth to the West and draw a perpendicular on the line thus found 4 chs North of the cor

I begin at the cor. to see 7-12-13 and 18 which is the most northerly completely identified original cor. on the range line between ranges 4 and 5 E through Tps 21 north and is a post firmly set surrounded by mounds of stone and marked and witnessed as described

Exterior Boundaries T₂ N R 4 E

5-E

892

chains

in the field notes furnished
by the Surveyor General
Thence I run
North. bet Secs 7 and 12
Var. $15^{\circ} 12' E$

5-50 Descend low ridge to S E and N W

10-00 Bottom of ridge. Thence
Ascend gently

40-00 Set post 4 ft long 4 ins diam
24 ins in the ground for $\frac{1}{4}$ Sec
Cor marked $\frac{1}{4}$ on N face and
raised mound of stone $\frac{1}{2}$ ft high
2 $\frac{1}{2}$ ft base around post

From which an Oak 18 ins diam
br S $53^{\circ} 00' E$ 43 els dist marked $\frac{1}{4}$ S. B. T.
A Pine 36 ins diam br S $63^{\circ} 00' W$
80 els. dist. marked $\frac{1}{4}$ S B. T.

80-00 set post 4 ft long 4 $\frac{1}{2}$ ins square
24 ins in the ground for Cor to Sec

Exterior Boundaries T21N R4 E

chains

1-6-7 and 12 Marked - T21N, S. 6
 on N.E. - R 5 E S. 7 on S. E. - R 4 E -
 S 12 on S 11 and S 1 on N. W. faces,
 with 1 notch on N and 5 notches on S edges,
 and raised mound of stone $1\frac{1}{2}$ ft
 high $2\frac{1}{2}$ ft base around post
 from which —

A Pine 10 ins diam brs N 32° 30' E
 17 lks dist. Marked T21N - R 5 E S 6 B.T.
 A Pine 18 ins diam brs S 50° 20' E
 108 lks dist. Marked T21N - R 5 E S 7 B.T.
 An Oak 10 ins. diam brs S 19° 00' N
 8 lks dist. Marked T21N, R 4 E S 12 B.T.
 A Pine 18 ins diam brs N 24° 00' W
 89 lks. dist. Marked T21N - R 4 E S 1 B.T.
 The old cor. with only 2 bearing
 trees. brs S 22° 20' E 7.75 chs
 dist. I destroy all trace of
 the old cor.

Land rolling

Exterior Boundaries S W N R H E

5-E

nains

Set 2nd and 3rd into
 Number Pins and Carl

892

North bet secs 1 and 6

Var 15° 12' E

- 20-00 Ravine Course S. W. Ascend
 27-00 top of first bench
 40-00 Set post 4 ft long 4 ins diam
 12 ins in the ground. (rock
 prevented setting deeper) for 1/4 sec
 cor marked 1/4 S on W face and
 raised mound of stone 1 1/2 ft
 high 3 ft base around post
 from which a pine 7 1/2 ins diam
 br S 75-15 E. 40 els dist marked 1/4 S T.B.T.
 a pine 20 ins diam. br N 77° 00' W
 65 els dist. marked 1/4 S T.B.T.
 72-00 Top of ridge br S E and N W
 70-00 Set Post 5 ft long 6 ins square

Exterior Boundaries T21N R4E

chains

24 ins in the ground for cor
to Dps 21 and 22 N R5 4 and 5
E marked T22 N-S 31 on N.E.

R5 E S 6 on S E - T21 N. S. 1 on
S. N. and R4 E S 36 on N N faces
with 6 notches on each edge
and raised mound of stone 2 ft
high 4 ft base around Post
From which —

a Pine 36 ins diam br. N 35° 15' E
162 lks. dist. marked T22 N-R5 E-S 31 B.T.

a Pine 20 ins. diam. br. S 41° 00' E
15 lks. dist. marked T21 N-R5 E S 6 B.T.

a Pine 18 ins. diam. br. S 76° 00' W
68 lks. dist. marked T21 N-R4 E S 1 B.T.

a Pine 20 ins diam br. ~~N~~ 46° 15' N
51 lks. dist. marked T22 N-R4 E S 36 B.T.

The original Sp cor br. S 22° 05' E
9. 2 3 chs I obliterate the old

Exterior Boundaries T21N R4E

5-E

chain

corner

892

Land hilly and broken
Soil rocky 4th rate
Timber Pine and oak
undergrowth Oak

From the ^{new} cor to Ips 21 and 22
N Rs. 4 and 5 E I run.

West on a random line bet
said Townships.

var $15^{\circ}17' E$

setting temporary half mile and
mile corners at each 40- and
80. chs

at 1 mile 79 chs. and 84 lks
the Sec. cor. br N 45 lks.

at 2 miles 39 chs and 80 lks. the $\frac{1}{4}$ sec
cor. br N 54 lks. and at 2 miles
79 chs and 85 lks the Sec cor br

Exterior Boundaries T21N R4E

chains

764.00. I therefore conclude that the remaining west half of the line is correct as shown by the field notes furnished by the Surveyor General. and from the cor to Secs 2-3-34 and 35 on the north boundary of Township 21 N Range 4 E I run $S 89^{\circ} 51' E$ on a true line bet Secs 2 and 3-5

Var 15-12 E

40-00 set Malpais stone $36 \times 24 \times 18$ ins 18 ins in the ground (rock prevented setting deeper) for $1/4$ Sec cor marked $1/4$ on N side from which a pine 20 ins diam to N $43.30' E$ 153 lvs dist. marked $1/4 S B.T.$ a pine 18 ins diam to N $76^{\circ} 45' W$

Exterior Boundaries T21 N R4 E

chain

+ 5 lbs dish marked 1/4 S B.T.

892

80-00

Set post 4 ft long 4 ins square
24 ins in the ground for cor to Secs
1-2-35 and 36- Marked

T22 N S 36 on on N.E. R4 E S1
on S.E. T21 N. S2 on SW and.

S 35 on NW face with 1 notch
on E and 5 notches on W edges
and raised mound of stone 1 1/2 ft
high - 3 ft base around post
from which -

A Pine 16 ins diam. brs N 28° 45' E

8 3 lbs. dish, marked T22 N. R4 E. S 36 B.T.

a Pine 24 ins. diam. brs S 72° 45' E

14 3 lbs. dish, marked T21 N. R4 E S1 B.T.

an oak 5 ins. diam. brs S 29° 30' W

39 lbs dish, marked T21 N - R4 E. S2 B.T.

an oak 8 ins diam brs N 55° 15' W

4.5 lbs dish, marked T22 N R4 E S 35 B.T.

Exterior Boundaries T 21 N R 4 E

chains

the old section cor brs
 S $11^{\circ}40'$ E 8.80 chs, I obliterate
 the old corner

Land rolling
 Soil rocky 3rd rate
 Timber Pine and oak

S $87^{\circ}51'$ E on a true line
 bet sec 1 and 36

Var $15-12'$ E

31.00 Ravine course S W Ascend

39.90 Set Malpais stone $18 \times 8 \times 6$ ins
 12 ins in the ground for $1/4$ sec
 cor. Marked $1/4$ on N side
 and raised mound of stone $1 1/2$ ft
 high 3 ft base along side.
 From which a Pine 18 ins diam
 brs N $88^{\circ}00'$ E 37 lds dist marked $1/4$ S B.T.
 a Pine 12 ins diam brs S $89^{\circ}45'$ W

Exterior Boundaries 221 N N H E

main

58 lbs dust Marked 1/4 S T. T.

73-00 Top of ridge to S. E. and N. W.

79-84 Cor to Tps 21 and 22 N N H and
5 N E

Land hilly

Soil rocky 3rd rate

Timber Pine and Oak

April 28th 1892

2 miles 50 chs. of tree lines run
over mountains and through timber

Francis B. Jacobs

U. S. Deputy Surveyor

Field Notes

of the retracing of the
Boundary line Between
Townships 21 and 22 North
Range 5 East
of the

Gila and Salt River
Meridian
Territory of Arizona

as retraced by
Francis Jacobs
U S Deputy Surveyor
under his contract No 17
dated May 25-1891

Survey commenced April 29-1892
Survey completed April 29-1892

Exterior Boundaries 322n R 5E

chains

Names and Duties of Assistants

Clod Thompson Chainman
Lee Bond Chainman

22-1/5-

BOOK 1703

South Body

31	32	33	34	35	36
59	57	55	53	51	50
6	5	4	3	2	1

Exterior Boundaries T22N R5E

S. E.

Main

Survey commenced April
29-1892 with a Gurley
mountain transit with Burt
Solar attachment.

592

Observation on Polaris
was made April 28 at the
cor to Secs 7-12-13-18 Tps
21 N Rs. 4 and 5 E.

record of which is on page
35 of this book

From the cor to Tps 21 and
22 N Rs 5 and 6 E. which is
a post formerly sub. marked
and witnessed as described
in the field notes furnished
by the Surveyor General
I run

Exterior Boundaries L22 N R. 5 E

N 89° 50' W on a true line
bet secs 1 and 36

Var 15° 17' W

4 00 Leave Timber bro N W and S. E.
Enter volunteer paravie

40.00 a post 2 ft above ground
3 ins diam. marked 145 on N
face I raise mound of stone
1/2 ft high. 2 1/2 ft base around
Post.

80.00 I find old mound of stone but
the post is missing I destroy
all trace of the old cor. and
reestablish it as follows
Set post 4 ft long 5 ins square
with marked stone 12 ins in the
ground for cor to secs 1-2-35
and 36. Marked - T22 N - S 36
on N E. R5 E S1 on S E

Exterior Boundaries T22N. R. 5-E

5-E

T22N. S 2 on S. W and S 35 on
 S. W. with 1 notch on E and
 5 notches on W edges and
 raised mound of stone $1\frac{1}{2}$ ft
 high 2 ft base around
 post Pts unpracticable
 Land rolling.

Soil rocky 2nd rate

Timber Pine 4chs

N $89^{\circ}50'W$ on a true line
 bet secs 2 and 35

Var $15^{\circ}12'E$

40.00 The $\frac{1}{4}$ sec. cor. a post 2 ft
 above ground 3 ins diam
 marked $\frac{1}{4}S$ on N face. I rebuild
 mound of stone $1\frac{1}{2}$ ft high
 3 ft base. around post.
 Bellemont station on the

392

Exterior Boundaries Sec 2 of T. 3-E

- Atlantic and Pacific Railway
br S. 10 chs dist
- 66-55 Western Union Telegraph line
brs S 70° E and N 70° W
- 67-70 Atlantic and Pacific Railway
brs S 70° E and N 70° W
- 80-00 I find mound but stake is
missing I destroy all traces
of the old cor. and reestablish
it as follows:
Set Post 4 ft long 3 1/2 ins
square with marked stone
12 ins in the ground for cor to
Secs 2-3-34 and 35 marked
T 22 N-S 35 on N.E. T 5 E S 2 on
S.E. T 21 N. S 3 on S W and S 34
on N W face with 2 notches
on E and 4 notches on W edges
and raised mound of stone

Exterior Boundaries T22 St. R. S. E

S. E

1 1/2 ft high 3 ft base around
post. Pits impracticable
Land rolling
Soil rocky 2nd rate
No Timber

892

N 89° 50' W on a true line but
Sides 3 and 34

S at 15° 17' E

40-06 the 1/4 sec cor. the post was
greatly decayed. I destroy all
traces of the old cor. and
reestablish it as follows
set Malpais stone 18x10x6 ins
12 ins in the ground for 1/4 sec
cor. Marked 1/4 on N side and
raised mound of stone 1 1/2 ft
high 2 1/2 ft base along side
Pits impracticable

Exterior Boundaries Sect. R. 5-E

From which a pine 42 ins
diam brs $N 80^{\circ} 00' W$ 315 lvs
dist marked $\frac{1}{4}$ S B.T.

No other tree with in limit

Thence $N 84^{\circ} 40' W$

Var $15^{\circ} 12' E$

3-50 Enter timber brs N and S

40-65 Cor. to Secs 3-4-33- and 34

a Post 2 ft above ground

$3\frac{1}{2}$ ins square marked

T22N-S 34 on N.E. T25E S 3 on S E

T21N-S 4 on S W and S 33 on N W

faces with 3 notches on E and W

edges and 9 rais mound

of stone $1\frac{1}{2}$ ft high to 3 ft base

around post. Pits unpracticable

From which a pine 36 ins diam

brs $S 41^{\circ} 00' E$ 25 lvs dist marked-

T27N R5E S 3 B.T.

Exterior Boundaries T22 N. R. 5. E 5-E

a Pine 30 ins diam br N $34^{\circ}00'W$ 892

35 lks dist Marked T22 N-R 5 E S 33 B.T.

No other trees within limit.

Land rolling

Soil rocky + th rate

Timber Pine 37. chs

N $89^{\circ}50'W$ on a true line but

Secs 4 and 33.

Var $15^{\circ}12'E$

40-00 the $\frac{1}{4}$ sec. cor. a post $2\frac{1}{2}$ ft above

ground. $3\frac{1}{2}$ ins diam marked

$\frac{1}{4} S$ on N face. I raise mound

of stone $1\frac{1}{2}$ ft high $2\frac{1}{2}$ ft base

around post - From which -

a Pine 24 ins diam br S $38^{\circ}00'E$

93 lks dist Marked $\frac{1}{4} S$ B.T.

a pine 18 ins diam br N $2^{\circ}30'W$

73 lks dist Marked $\frac{1}{4} S$ B.T.

Exterior Boundaries T22 N. R5 E

179-90 Cor to Secs 4-5-32 and 33

the Post was greatly decayed
and the marks very indistinct
I destroy all traces of the old
cor. and reestablish it as follows

Set Post 4 ft long 4 ins square
12 ins in the ground for cor
to Secs 4-5-32 and 33

Marked T22 N. S 33 on N E

R 5 E S 4 on S E T21 N S 5 on S W

and S 32 on N W faces with
4 notches on E and 2 notches
on W edges and raised

Mound of stone 1 1/2 ft high
3 ft base around Post

Pts unpracticable

Iron which -

Opine 36 ins diam br N 36° 40' E

191 lvs dist marked T22 N - R 5 E - S 33 T. T.

Exterior Boundaries Sec 2 N. P. 3^d E

A pine 7 1/2 ins diam br S 59° 00' E

75 1/2 dist marked T21 N-TR 5E-S 4-13 T.

No other trees within limit

Land rolling

Soil rocky 3rd rate

Timber Pine

N 89° 50' W on a true line

cut Secs 5 and 32

var 15° 12' E

12-00 Smith's Barn br N 2 ch dist

12-90 Smith's fence br N and S

21-15 pass out of enclosure fence br

N 50° W and S 50° E

Ascend

29-00 Top of hill br S 60° E and N 60° W

39-92 1/4 sec. cor. a post 2 ft above

ground 3 ins diam marked

1/4 S on N side and mound of

Exterior Boundaries L 22 A. P. S. E

stone $1\frac{1}{2}$ ft high $2\frac{1}{2}$ base
^{with impregnable}
 around Post _A Iron which
 a Pine 12 ins diam brs S $16^{\circ}00'W$
 53 lks dist marked $\frac{1}{4}$ S B.T.
 no other tree within limit

50-00 Descend

57-00 Bottom of hill

80-12 the cor to sect 5-6-31 and 32
 a Post 2 ft above ground 3 ins
 square marked T22N-S32 on NE
 T21N-S5 on S.E. T21N-S6 on SW
 and S31 on NW faces with
 5 notches on E and 1 notch on
 W. edge I raised mound of
 stone $1\frac{1}{2}$ ft high 3 ft base around
 Post - Iron which
 a Pine 30 ins diam N41-45E
 87 lks dist marked T22N T21N S32 B.T.
 a Pine 30 ins diam brs S $68^{\circ}00'E$

Exterior Boundaries La 2 A. R 5-E

5-E

39. 6 1/2 dist marked T21N-R5ES-5B.T.

892

A Pine 12 ins diam br S 61° 15' W

59 6 1/2 dist marked T21N R 5 E S 6 B.T.

A Pine 3 1/2 ins diam br N 33° 00' W

76 6 1/2 dist marked T22N R 5 E S 31 B.T.

Land rolling and hilly
Soil rocky 3rd rate
Timber Pine

N 89° 50' W on a true line
but Secs 6 and 31

Var 15° 17' E

40-40 the 1/4 sec. cor. the stake being
greatly decayed I destroy
all traces of the old cor and
reestablish it as follows
set post 4 ft long 4 ins diam
2 1/2 ins in the ground for 1/4 sec
cor marked 1/4 S on N Side

Exterior Boundaries Sect. P. 5 & 6

and raised mound of
stone $1\frac{1}{2}$ ft high $2\frac{1}{2}$ ft
base around post
From which —

A Pine 30 ins diam brs S $40^{\circ}00'$ E
4 lks dist marked $\frac{1}{4}$ S B.T.

A Pine 30 ins diam brs N 30° W
13 lks dist marked $\frac{1}{4}$ S B.T.

Thence S $76^{\circ}06'$ W
Var $15^{\circ}12'$ E

11.00 Ascend

25.00 Top of ridge brs N and S
Descend

34.00 Head of ravine Course N.W.

36.64 Cor to Tps 21 and 22 N. Ws
4 and 5 E

Land hilly and rolling
Soil 2nd and 3rd rate
Tumber Pine and oak

Exterior Boundaries T2 & A. P. 5 & 6

April 29th 1892

3.7 miles and 37 chs of these lines
run through timber

Francis B. Jacobs
U S Deputy Surveyor

U. S. Surveyor-General's Office,

TUCSON, A. T., NOV 16 1892

The foregoing Field Notes of the Surveys of
 Exterior and Retracement T. 21. N.
 R. 17. W. 2. N. R. H. E. T. 22 N. R. 5. E.

of the Gila and Salt River Meridian
 in Arizona executed by
 Francis B. Jacobs

U. S. Deputy Surveyor, under his contract dated
 May 25th 1891
 having been critically examined, the necessary correc-
 tions and explanations made, the said Field Notes and
 the surveys they describe are hereby approved.

Raymond Johnson
 U. S. Surveyor-General
 for the Territory of Arizona.