

2010

BOOK 2010

*North East boundary of the
Gila River Indian Reservation in Arizona*

H. R. Patrick, D.S.

4-671

2010

FIELD NOTES

2010

GENERAL LAND OFFICE.

2010

BOOK 2010

Preliminary Oaths of Assistants.

We, *Alfred J. Hayes*

and *John F. Briggs*

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths 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 *North East*

boundary line of the Gila River Indian Reservation in Tps. 1 N. R 1 E. and Tps. 1 S R 1 & 2 E, and Tps. 2 S. R 2 E.

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

Alfred Hayes Chainman.

John F. Briggs Chainman.

Chainman.

Chainman.

Subscribed and sworn before me, this *16*

day of *October* 189*9*

E. M. Wickersham

Notary Public.

[SEAL.]

my Commission expires March 7, 1902

We, Joseph Vuelva (1A)
and John R. Moore (1B)
do solemnly swear that we will well and truly per-
form the duties of Flagman
and Axman BOOK 2010

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 North
East boundary line of the Gila River
Reservations in Tps 1 N. R. 1 E.
and Tps 1 S. R. 1 & 2 E. and Tps.
2 S. R. 2 E.

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

Joseph Vuelva Flagman
John R. Moore - Axman

Subscribed and sworn to before me this 16th

day of October 1899

Em Wickersham
Notary Public.

My Commission
Expires March 7 1902

Field Notes
of the Survey of the
North East Boundary line
of the
Gila River Indian Reservation
through portions of T^p. 1 N. R. 1 E
and T^ps 1 S. R. 1 and 2 E,
Gila and Salt River Base
and Meridian.

As Surveyed by.

Herbert R. Patrick.

U.S. Deputy Surveyor.

under his contract No 51.

Dated April 17, 1899.

2. North East Boundary of the

Hila River Indian Reservation. ³

BOOK 2010

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TP₅ 1N. & 15. R 1E

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TP₅ 1N. & 15. R 1E

32	33	34	35	36
BASE		LINE.		
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8	9	10	11	12
17	16	15	14	13
20	21	22	23	24
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T25. R₉ 2 & 3E

3	4	5	6		
10	11	12	7		
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34-35 2 & 15 M. 6.
P.C.M.I.R.

4 **BOOK 2010**
North East Boundary of the

Survey commenced October 17th
1899 and executed with a W. & L.
Gurley light mountain transit, the
horizontal limb having two double
opposite verniers, reading to 1 Min.
and provided with solar attach-
ment reading ~~the same~~, the
Vert. or latitude arch being a
half circle.

My transit was examined and
approved by the Surveyor General
before the beginning of this survey.
At a point near the Cor. to Secs.
34 & 35 - T1N. R1E. as shown
by a corner established by Deputy
Louis Woolfly, in 1896. in lat $33^{\circ} 21'$
 $40''$ N and long. $112^{\circ} 13' 16''$ W. I set
a plug on South side of Indian
irrigating ditch and fence and
about 40 ft west of a fence
and road running N & S.

I adjust my instrument and observe Polaris October 16th
5^h 49' ^{P.M.} at eastern elongation,
according to instructions on
page 105 of the manual, and
mark the line with tack in
plug 5 ch. north of my
station; this plug falls in
edge of highway near fence
running north.

Oct. 17th at sunrise, being
a little after 6 a.m., I laid
off the azimuths for 32° lat.
1° 28' and 1° 29' for lat. 33° -
to the west of my plug set
last night, and mark the
true meridian upon a stone
set firmly in the ground, with
a + at the proper proportional
distance between the two angles

To give the exact azimuth
for lat. $33^{\circ} 22' 40''$.

The magnetic bearing of this
true meridian at 7 a.m.,
is N. $43^{\circ} 33'$ W. This angle
corrected by table on page 100
of the Manual gives the Mean
magnetic declination N. $13^{\circ} 30'$ E.

I compare and carefully adjust
my chain with standard steel tape.
My instructions from the Surveyor
general require the Initial
Monument of this Reservation
Boundary line to be established
at the center of the low water
Channel of Salt River at a
point due north of a point
on the Base line distant
320 Chains east of the Initial
Monument of the Public Survey,

and to retrace the base line and reestablish all lost corners. The corner on the base line nearest to the Initial Monument that I can find or hear of is the Standard corner to Sec's. 35 & 36, and which is a stone firmly set in the ground in the center of a highway, marked by fences running east and west, and north of it a fence begins 50 lbs. distant, and runs north.

In accordance with the instructions in the circular on Restoration of Lost and Obliterated corners, dated Oct. 16 1896, furnished me by the Surveyor General

South Boundary Tp. 1N. 1E.

Chains, ^{35th/36} From this cor. of Sec 34+35
I run West on the Base line
on a Random line.

Var. N. 13° 30' E.

40.00 Set temp. 1/4 Sec. Cor.

Search for cor. none found. → 34

80.00 Set temp. Sec. Cor. to Sec 35

Search for orig. cor. none found.

South Boundary Sp. I.N.R. 1E, ⁹

Chains West on South bdy. Sec. 34.
Random line.

40.00 Set temp $\frac{1}{4}$ Sec. Cor.

search for orig cor. none found.

80.00 Set temp Sec. Cor. to Sec. 34, 33.

search for orig cor. none found.

South Boundary T.1N.R.1E.

Chains West on S. bdy. Sec. 33.

Random line.

40.00 ^{Set} Jump 114 Sec. Cor.

search for orig. cor. none found

80.00 Set. Jump. cor. Secs 33 + 32.

search for orig. cor. none found.

South Boundary. T. 1 N. R. 1 E.

Chains, West on S. bdy. Sec 32,
Random line.

40.00 Set temp. 1/4 Sec. Cor.

Search for orig cor none found.

West of this point a short
distance the line runs into
slough or channel of Salt
River bearing westerly an
^{impassable} obstruction
I offset 200 ft. South. 90°
West on offset.

80.00 Set temp stake

South of Cor. to Sec 32-31

West of this point a
short distance the
line runs into channel
of Salt River bearing
West and impassable.

Offset 200 ft. South (90°)

Total offset. 400 ft.

October 17.th 1899

South Boundary Tp. 1 N. R. 12

chains West on offset, S. of Sec. 31.

Random line,

27.88 South Bank of River
offset 90° N. 400 feet
to orig. line.

27.88 West on S. bdy, Sec. 31.

40.00 Set temp 1/4 Sec. Cor

80.00 Intersect the Gila and Salt River ^{meridian} at

the initial monument
of the Public surveys
being a monument
of stones, 5 ft li. laid
firmly in place, 6 ft in
diam., and situated
on the summit of a
conical hill or Mountain
west of the junction of
the Gila and Salt Rivers
as described by the
Surveyor General.

South Boundary Sp. IN. RIE. ¹³

Note: There is no stake
or post in center of this
Monument as described
by Surveyor general and
no bearing objects.

South Boundary Tp. 1 N. R. 1 E.

Chains. Oct. 18.th 8 am. S. mt.

I set off. $56^{\circ} 37\frac{1}{2}'$ Co-lat for lat. $33^{\circ} 22'$
on lat ave.

$9^{\circ} 40'$ on decl. ave.

Note: this is the highest I can read with
my inst. to $33^{\circ} 22' 40''$ Lat
and $9^{\circ} 39' 54''$ decl.

and determining true Meridian
with Solar. at the foregoing
described initial Monument.

Thence I run

East on S. bdy. Sec. 31. To a line
Descending rough mountain
and over river channels and
river bottoms of the Gila and
Salt Rivers.

0.50 Large ledge of rocks. 20 ft. W.

1.35 " " and about ^{12 ft.} descent.

3.80 Foot of rocks.

7.30 Edge of Water W. Bank. Gila River

South Boundary **TP. 1 N. R. 1 E.**

Chains.

S. 64y. Sec. 31, continued.

8.85 East Edge Water. River
 bears S. 15° E. about $\frac{1}{2}$
 mile, and N. 22° W about
 15 chains where it turns
 abruptly around the
 mountain and bears West.

10.00 enter sand bar

25.00 " Gravel "

40.00 Point for ^{Standard} $\frac{1}{4}$ Sec. Cor. in
 gravel bar, near river
 channel, at low water mark,
 and subject to overflow -
 deposit stone mark $\frac{1}{4}$, of char-
 coal and charred stake
 24" in gravel.

There are no bearing trees
 within limits and no perma-
 nent ground within 20 ch.
 upon which to erect witness cor.

South Boundary Sp. 1 N. R. 1 E.

chains So. bdy. Sec. 31. continued.

40.15 W. edge water. North Channel
of Salt River, bvs. S.W.

Note. There is no well defined
River bank between these
Channels of the Gila and Salt River.

42.60 E. edge water.

46.80 Sand Bank

52.12 N. Bank, So. Channel. Salt
River, subject to over flow.

Line E. runs in the channel
of flowing water and impassable.
Therefore, offset south.

to South Bank, a high
earth bank above high
water mark, and bears

S. 46° W. and N. 46° E, about
3 ch. from whence it bears

N. 85° E, set temp witness

points on N + S banks
and from the S. end of offset

7 ch

18 ch

m

South Boundary N. 1 N. R. 1 E.

hains. South Body, Sec. 31, continued.

I run East. on the offset line,

~~80.00~~ 80.00 (counted from sec. cor.)

then 200 ft. N. to S. bank

80.00

of Salt River, point 200 ft. S. of the point for cor. to Sec. 31 & 32.

Set a river Boulder 19' x 9' x 7'

ins - 14 ins. in ground for Witness cor. to ~~cor~~ of stand and cor. of Secs. 31 & 32

mkd. W.C. S.C. on N. with

1 notch on W. & 5 notches on

E. dug pits 30 x 24 x 12 ins

crosswise on lines W & E 8 ft.

7 ft. N. - and built a mound

of stone on N. Side 3 ft

base and 1 1/2 ft high.

deposit Charcoal 24 ins

dep. under Stone,

mountain Notes. Pits dug 30 x 24 because of sandy soil, surface broken ground...

Soil. 52 ch. River bottom. 41th rate. 15 ch. 1st Rate, timber Mesquite, dense sage,

South Boundary T^p. N. R. 12

Chains South bdy. See 32 Iron line

From W.C. on offset. 200ft.

S. of Cor. to See. 31 + 32 Iron.

East. on offset.

40,00 temp stake for witness point.

Then North. 200ft. to
the true line. on which at

40,00 Set a river boulder 18 x 9 x 5 ins

14 ins. in ground. for Standard

1/4 Sec. cor. marked. S.C. 1/4 S.

on N. side, dig pits 18 x 18 x 12 ins

E. & W. of stone 3 ft. and raised

a mound of earth 3 ft. N.

from which a mesquite. 5" dia

brs. N. 85° 45' W. 72 2 1/2 lbs. dist.

marked. S.C. 1/4 S. B.T.

the post set by Deputy Woolfley

for this 1/4 Sec. Cor. brs. S. 45° 30' E

62 lbs. Marked as described

by the surveyor general.

South Boundary, T.P. 1 N. R. 1 E.

South bdy. Sec. 32, continued.
Chains, & destroy mound + pits and
stake.

West from the $\frac{1}{4}$ Sec. Cor. N. 40 Ch. to
29.60 East bank of salt River brs. N. 78 $^{\circ}$ E.

and S. 85 $^{\circ}$ W.
Thence east on line 29.00, $\frac{1}{4}$ cor.
75.00 Enter Mesquite grove,

78.30 Road. brs. N. E.

80.00 Set white River boulder

22 x 11 x 8 ins. ^{16 in.} in the ground for
cor. of Sec. 32 & 33. marked with
2 notches on W. and 4 on E, 6 on N,
& C. on S. dug pits 30 x 24 x 12
ins. crosswise on each line
E + W. 4 ft. and N. of stone
8 ft; and raise mound of earth
3 ft. N. of stone 5 ft base 2 $\frac{1}{2}$ ft high
A Mesquite, 14 ins. diam, brs. N. 52 $^{\circ}$ 31' W. 2.19.
Marked. T. N. R. 1 E. S. C. 32. B. T.
A. Mesquite, 16" diam brs. N. 20 $^{\circ}$ 30' E. 108 $\frac{1}{2}$ ft.
Marked. T. N. R. 1 E. S. C. 33. B. T.

Chains. So. bdy. Sec. 32. concluded.

From this cor. the corner set
by Woolfley, which is a mesquite
Post. 4 ins sq. marked as described
by the Surveyor general by $S. 68^{\circ} 32' E. 57$ ^{ft}
I destroy all traces of this cor -
Surface level.

Soil 1st class.

Scattering mesquite, heavy S. of line
sage brush, Arrowweeds and
other bushes.

80. Chains dense undergrowth

Note. Pits dug 30x24 because of
sandy ground.

South Boundary Tp. 1 N. R. 1 E.

- Chains. So. bdy. Sec. 33.
 East on true line. S. bdy. Sec. 33.
- 11.30 Fence bdy. N. & S. enter indian field,
 22.35 " " " Enter dense brush & wood
 34.30 " " " leave field.
 34.50 Indian road. N. & S. enter brush.
 40.00 Set River boulder. 18x18x4 ins,
 15 in. in ground. for Standard
 1/4 Sec. Cor. marked S.C. 1/4 on N.
 dig pits ^{18x18x12 ins.} E and W. of stone. 3 ft
 dist. and raise mid of earth 3 1/2 ft
 base. 1 1/2 ft hi. 3 ft. N. of cor.
 A mesquite 6 ins. diam. ¹⁹⁴¹¹⁶ N. 132° E
 marked. S.C. 1/4 S. B.T. -
 Woolfly corner for 1/4 Sec could not be ^{found}
- 44.38 Fence. N. & S. with ditch on W. side.
 47.50 Ditch. bears S. of W.
 49.28 Fence with irrigating ditch on W. side to S.
 54.43 " " " " " " " "
 60.07 " " " " " " " "
 65.00 " " " " " " E " "
 Enter corn field.
 66.80 Leave " " Indian house 100 yds N.
 70.37 Fence with ditch N. side bdy S.

South Boundary Tp. 1 N. R. 1 E.

chains. S. bdy. Sec. 33 continued,
 75.13 Fence, with ditches on W. side bdy. S.
 77.88 " " " " " "

and enter alfalfa field,

80.00 Set a black river boulder, 19x7x5 ins
 16 ins in ground for cor to secs.
 33 and 34. Marked with 3 notches on
 E, and W. edges. S.C. on N. pits
 impracticable.

A. Mesquite, 11 ins. diam bdy. N. 41° 5' W. 20 1/2^{lbs.}
 marked. S.C. T. 1 N. R. 1 E. S. 33, B.T.

A. Mesquite, 9 ins. diam bdy. N. 26° 10' E. 14 5/8^{lbs.}
 Marked S.C. T. 1 N. R. 1 E. S. 34, B.T.

as a further bearing object to this cor.

I set an ash post, 4 ins sq, 3 ft long
 in high border under wire fence
 5 lbs. E, and marked it. W.C. 34-RIE on E
 with 3 notches, S.C. T. 1 N. on N. side and
 33 with 3 notches on W. for bearing object.

Surface level, partly cultivated.

Soil 1st. class.

Timber, a few cotton wood + mesquite
 on border of ditches.

South Boundary 2p. 1 N. R 1 E -

Chains. S. bdy. Sec. 33 concluded
small fields of corn, melons and
squashes. raised by Maricopa
Indians. No trace of Woolfley Co. found.

69.96 chains dense ~~brush~~ growth.
Sunflower and other weeds
requiring clearing.

Note. of the above 69.96 Chs. 24.51 are
Sage and other brush. and 45.45
Chs. are Sunflower weeds, very thick,
and rank in blossom. and a small
corn field. all requiring clearing.
The Sunflowers and corn requiring
more labor and time to clear
than the sage brush. The corn
was in the roasting ear. and it
only with difficulty that I could
get consent of Indians to cut tops of
corn stalks. as they could not understand
the necessity of running this line.

South Boundary. T. 1 N. R. 12.

behaves. S. bdy. Sec. 34.

East, on True line, S. bdy Sec. 34

0.07 Fence N + S. leave alfalfa.

3.05 Fence N + S.

31.30 " " " enters corn field,

³⁵⁰⁰ Ditch, course, ^{3 ft} ^{width},
36.00 Indian House. S. 56 lbs. leave field

38.00 Singing ditch ^{3 ft} 20 lbs. on line. bears S. of W.

40.00 Set river boulder .19 x 9 x 4 ins, 15 ins

in ground for Standard. $\frac{1}{4}$ Sec. Cor.

Marked. S.E. $\frac{1}{4}$ on N. dig pits .18 x 18 x 12

ins. E. and W. of cor. and raise mound

of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft high. N. of

the Cor. from which

A cottonwood 30 ins. diam. bears N - E $112\frac{1}{2}$ ^{lbs}

Marked. S.E. $\frac{1}{4}$ S. 34. B.T. Woollyer cor. not found.

41.60 Ditch 6 lbs wide. bears N + S - 40 lbs N,
this ditch turns to W. 120 lbs. S. it turns E.

45.20 Center of bridge over ditch. bearing
S. 75° W. Row of cottonwood trees on
north border. Road bus S.

45.60 Fence bus. S. enter corn field.

53.12 " leave corn enter alfalfa.

57.65 " bears N + S. leave alfalfa.

70.76 " " "

South Boundary. T. 1 N, R. 1 E.

Chains. S. Bdy, See 34

80,00 Set a white river boulder. $18 \times 11 \times 7$ ins14 ins. in ground. for Standard Cor.
of Secs. 34 and 35. Marked. S.C. on N.
With 4 notches on W. and 7 notches on E.dig pits $24 \times 18 \times 12$ ins. \pm W. 3 ft. + N 7 ft. raise a
Mound of Stems. $2\frac{1}{2}$ ft base $1\frac{1}{2}$ ft.
high on N. side of the cor. 3 ft dia.

Woolfleg Cor. As described by Mrs. Keel. destroyed.

A cottonwood 78 ins. diam. brs. N. $16^{\circ}35'E$. 354 1/2

Marked. S.C. T. 1 N R. 1 E S. 35. B.T.

There being no other bearing objects
Near. for further bearing object to this cor.I set a red. river boulder. $19 \times 11 \times 7\frac{1}{2}$ insin ground. 95 Ws. East, under fence
on west side of Road. Marked it W.C.
on W. and raised Mound of stems 3 ft.
base and $1\frac{1}{2}$ ft hi. on W. side. 3 ft.
Surface level. cultivated.

Soil 1st class.

Vegetation, alfalfa, corn, and dense sun-
flower and other weeds.Timber scattering Cottonwood on ditches,
so ch. denser undergrowth of weeds.
requires clearing, October 18th

Auxiliary Line North from Cor. Secs 34
and 35. on Base Line +

I begin at Standard cor. of Secs. 34 + 35
In order to test the adjustment of
solar instrument Oct. 18th at 4 P.M.
l. m. t. I set off $56^{\circ} 37\frac{1}{2}'$ on Co-lat
itude arc, and $9^{\circ} 49'$ on the
decl. arc, and mark the
true zenith thus determined on
a stake set 5 ch. north of the cor.
(the observation is taken from cross
on top of the stone,

at $5^{\circ} 43'$ P.M. by my watch, which
is set with chronometer. I observe
Palanis. at eastern elongation
according to instructions in manual
and mark the line thus determined with
tack in stake driven in ground 5 ch.

N. of my sta. Oct. 18.

Oct. 19. at sunrise I lay off the
Azimuths of Palanis, $1^{\circ} 28'$ and $1^{\circ} 29'$
& the West of my Plug,
(The table only giving azimuths for every
degree of lat.) for $33^{\circ} + 34^{\circ}$ of lat.

Supiliary Line North from cor. Sec. 34 & 35
 on base line. 27

Chains. I mark the falling of each angle
 on the stake 5 ch. N. and between
 the two set a tack ~~at~~ the proportional
 distance for azimuth of lat $53^{\circ}22'40''$
 To mark the true Meridian, which
 falls $\frac{7}{8}$ inch east of mark determined
 yesterday by Solar —
 at 8 a.m. I set off. Co lat. $56^{\circ}37\frac{1}{2}'$ on
 hor. arc, and $10^{\circ}1'36''$ on decl. arc,
 and mark the true meridian thus
 determined on the Stake 5 ch. N. $\frac{1}{4}$ inch
 east of the tack marking true
 meridian established last night
 by observation on Palavis.

The P.M. and A.M. observations with the
 Solar. define points so nearly coincident
 with the True Meridian determined
 by observation on Palavis that I
 conclude the adjustments of the
 instrument are correct.

Auxiliary Line North from Cor. Secs 34 & 35

Chains, From the Standard Cor. to Sections 34 & 35, TINNIE, as established by me. on Oct. 18 at a point on the Gila and Salt River. Base line distant 320 chas East of the Initial Monument of the Public Surveys, according to my instructions from the Surveyor General, and which is described on page 25 of this volume.

Thence I run

North between Secs. 34 & 35, on the True Meridian established from the corner.

Variation, N. $13^{\circ} 30' E$

- 7.68 Indian irrigating ditch 10 lbs wide
 bears S. $65^{\circ} W$.
- 8.30 Brush fence on W side of road runs N
- 10.92 Runs into Willow hedge & fence

Auxiliary Line North from Cor. Sec. 34 188

chains. leaves N. an impassable obstruction
 Set Trip witness point
 Indians object to clearing ledge,
 Therefore offset East. 35 ft. 2 ins.

North on offset.

14.55 Indian ditch, bears $S 70^{\circ} W$ -

22.75 Brown of High bank. Set Trip Witness

point. (Distance meas from Sec. line)

West. 35 ft. 2" to

22.00

Road $\frac{1}{2}$ mi. W

22.75 a point on the Sec. line on Main
 bank of Salt River above high
 water mark, descend abruptly
 to river bottom, broken ground,
 sand and gravel bars -

40.00

The point for $\frac{1}{4}$ Sec. Cor. in gravel
 bar, and liable to destruction.
 Deposit marked stone, and charred
 24 ins in ground, and 17.25 chains
 South on the line I establish a
 Witness cor. by setting a river boulder
 26 x 12 x 10 ins. 18 ins in ground. Marked
 N.E. $\frac{1}{4}$ on W. side, and mixed mud stone

Auxiliary Line North from Cor to
Secs. 34 and 35.

Chains, $3\frac{1}{2}$ ft. base and 2 ft hi. 3 ft W.
of the stone. From which

A cottonwood 14 ins. diam. brs. N. $36^{\circ}42'$ W. ^{200 lbs.}

Marked. W.C. $\frac{1}{4}$ S. 34. B.T.

A Cottonwood 12 ins. diam. brs. N. $34^{\circ}06'$ E. 212 lbs.

Marked. W.C. $\frac{1}{4}$ S. 35. B.T. ~~I destroy~~

A Cottonwood post set by Woolfley
for the $\frac{1}{4}$ Sec. Cor. Marked as described
by the Surveyor General and bears
S. $37^{\circ}25'$ E. distant 82 lbs. from the
 $\frac{1}{4}$ Sec. Cor. from which I run
North.

46.39 To a point, 36 lbs. W. of a stone 12x10x12
ins. above ground. Marked. M.C. W.C.
I.M. on N side, G.R.I.R. on S.W. side,
the initial monument of the
Reservations Boundary line set
by Louis Woolfley, Deputy Survey
Under his contracts N^o. 38 & 39.
which I find as described by

Auxiliary Line North from the cor.
to Sec. 34 + 35.

Chains. the surveyor General, and remove and destroy all traces of same.

46.90 Dry channel 6 ch. w. bvs W. banks subject to over flow. not well defined on North.

54.50 High ground. narrow point subject to over flow and covered with drift wood.

Note: By my level on Transit this is shown to be the highest point in elevation between the extreme high banks of river.

71.54 To left bank of low water Channel of Salt River bvs. S. 74° W. and N 80° E which I find to be 6.68 chs. wide, therefor at

74.88 I set a large temp. stake, 3 ins. diam. 3 ft. long, for point for the Initial Monument of North East

North East Boundary
of Gila River Indian Reservation.

Chains, Boundary line, of the
Gila River Indian Reservation

Notes: On all ^{short} objects, I used long four right
From data taken from field
notes and plats furnished me
by the Surveyor general, &
calculate the course to run
from this point for initial
Monument of the N.E. Boundary
of the A.R. & R., just described
as established by me on
this date, Oct. 19, 1899 to strike
the Northwest corner of the
Original Pima and Maricopa
Indian Reservation, located
in sec. 28 T. 2 S. R. 3 E. near
the south line thereof to be
S. 40° 55' E, which angle I took
from the Auxiliary line just run, being itself
a true meridian established by Polaris obs.

Surface . 22.75 ch. level. 52.13 broken
Soil. " " 12 ft. note, " 4 to note,
T. fields. Cotton wood, Willow & brush,
A sandy timberland or dense undergrowth.
Oct. 19,
52.13 Chains.

North East Boundary of G.R.D.R.

and Run S. $40^{\circ}55'E$.

Variation N. $13^{\circ}30'E$.

on a random line setting temporary $\frac{1}{2}$ mile and mile corners at intervals of 4000 Chains, and at 1263.30 chains or .15 Miles .63 ch. 30 lbs. intersect a line bearing N. $49^{\circ}05'E$. that passes through the N.W. cor. of the P.T.M. D. Res. 11 $\frac{1}{2}$ lbs distant. This cor is a mesquite post 5 in sq. 3 ft above ground. marked and witnessed as described by the surveyor general. — Oct. 19-20 & 21st.

This falling answers to a correction of $7^{\frac{1}{2}}$ lbs. per mile. or an angle of $0^{\circ}3'$ (as near as my instrument will read) counting from the

revolutions. Initial Monument of this Boundary

North East Boundary of G.P.D.R

Chains. Fractional 16th mile.

The falling of the Random line being to west of the Cor. the angle of correction 0°3' must be added to its course.

Therefore I begin at the N.W. Cor of the P.F.M.D.R. and Run.

N. 40°58'W. on a true line across alkali flat. Var. N. 13°30' E

17.00 Leave alkali flat. Enter broken ground.

23.30 The point for 1/2 mile cor on 16th mile.

59.00 Enter level mesa.

63.30 The point for 15 mile corner.

Surf. Broken. Soil 1st + 3rd class.

Timber. mesquite + sage brush

Grass under growth. 4.30 Ch.

Note. My instructions do not call for ^{Permanent} corners. South of the South Boundary of N.P.S. R. 2 E.

North East Boundary of G.R. I.R.

behaves. 15th Mile.

N. $40^{\circ}58'W$. on true line.
over level mesa.

200 Descend to swail over
broken ground.

400 Swail 2 ch. W. bvs. S.W.

40.00 Point for $\frac{1}{2}$ mile cor.
set Temp. stake.

80.00 Set Temp stake for 14 mile
cor.

at this cor.

at 9 a.m. put.

set off. Polat. over $56^{\circ}46' = Lat. 33^{\circ}14'$

Decl. arc, $11^{\circ}28'$

and determine the true
meridian with Solar-
Surface - level mesa + broken.

Soil. 1st class.

Timber mesquite. Sage + other brush.

so ch dense undergrowth.

36 North East Boundary of G.R.I.R.
BOOK 2010

chains. 14th mile.

North $40^{\circ} 58' W$, on true line,
over broad level mesa.

40.00 Set temp stake for $\frac{1}{2}$ mile cor.

80.00 Set temp stake for 13 mile cor.

Surface level.

Soil 1st rate.

Thicker mesquite and
sage brush.

Dense Undergrowth so cl.

North East Boundary of L.R. 2037

chains.	13 th mile.
	North. $40^{\circ} 58' W.$ on true line.
40.00	Set temp stake for the $\frac{1}{2}$ mi. cor.
50.00	Descend over broken ground to alkali flat, covered with dense mesquite.
65.00	Enter alkali flat and mesquite timber.
71.00	Sand ridge in small clearing.
76.50	An old Well box, East about 5 ch.
80.00	Set temp stake for 12 mile cor.
	Surface level.
	Soil 1st rate.
	Timber. mesquite, and sage brush.
	Dense undergrowth etc.

Oct. 23rd.

North East Boundary of G. P. & R.

Chains, 12th Mile.

North $40^{\circ}58'W$, on true line.

0.90 Read bvs. E. + W.

3.00 heavy clearing. enter mesquite
timber.

40.00 Set temp stake for $\frac{1}{2}$ mi. cor.

53.00 Leave mesquite. enter
broken mesa -

80.00 Set temp stake for 11 mi. cor.
Surface undulating.

Sail. 2nd rate.

Timber. Mesquite + Sage
bush.

Quise undergrowth 80 ch.

BOOK 2010
North East Boundary of G.R. 1839

Chains. 11th Mile.

North 40°58'W. on Iron line.

40.00 Set temp stake for 1/2 mi. cor

80.00 Set Temp Stake for 10 mi. cor.
Surface level.

Soil 2nd rate.

Timber. No cypresses, and
sage brush.

Dense undergrowth 80ch

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North East Boundary of G.R.R.R.

chains, 10th mile,

North $40^{\circ}58'W$. on True line.

40.00 temp stake for $\frac{1}{2}$ mi. cor.

63.40 Intersect the South Boundary
of Township 1 South, Range 2 East,
at a point from which the $\frac{1}{4}$
Sec. cor. bears east, 34.39 ch.
and the point for 9 mi. cor
bvs. N. $40^{\circ}58'W$, 16.60 ch.

At this point in accordance
with the instructions of the Surveyor
general I establish a permanent
Corner, as follows.

Set a stone $24 \times 12 \times 12$ ins 16 ins
in ground for the Angle corner
where the N.E. Boundary line is
intersected ^{by} the Northern boundary
running east and west,
at a point $S 40^{\circ}58' E$, 9 miles

North East Boundary of G. R. & R. #1

chains, and 16.60 chains distant from
 The N.E. cor. of G. R. & R. Reservoir
 and marked the same 16.6 C. on
 the N.W. face, and G.R. & R. on the
 S.W. face, with letters 3 ins.
 in height, and raised & marked
 by stones 5 ft. sq. at base 3 ft.
 high, on the S.W. side of the
 Cor. from which

A mesquite, 10 ins. diam. brs. S. $29^{\circ}53'W$. ^{445 lbs.}

Marked, G.R. & R. 9 M. 16.6 C. B.T.

A growing poleward stump 10 ins. diam
 brans. N. $71^{\circ}53'E$, 195 lbs.

Marked, T.P.S. R. 2 E. S. 35. G.R. & R. 9 M. 16.6 ^{B.T.}

This monument stands in an open
 plain, timber to West, open to
 east, dense sage brush and
 scattering mesquite to South
 and a Mountain ridge to the
 North.

chains. 10th Mile continued.

The Monument established by Woolfley, at $8\frac{7}{8}$ Miles, as marked and described by the Surveyor General brs. S. $67^{\circ}15'W$. $6\frac{1}{6}$ ^{Ch.}
I remove the stone set in ground, erase the markings and remove all traces of the cor.

72.00 Step ascent,

74.00 Rocky point of ridge 20 ft. above plain. High promontory 1 ch. E.

80.00 Set Stone 24x11x10 ins. 16 ins in ground, for the 9 mile cor. (counting distance from initial mon.)

Marked. 9 M on N.W. & RIR on S.W. sides and raised a mound of stones 5 ft Base ~~2 1/4~~ high on E side and $3\frac{1}{2}$ ft hi. on W. side, on sloping ground. 4 ft W. of the cor. from which a paloverde 12 ins diam (at base) bears

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Chains. 10th mile, S. $9^{\circ}00'W$, 136.

Marked on upright hand 6" d. G. R. & R. B. M. B. T.

A. paloverde. 13 ins diam. ^{65 ch.} b. N. $33^{\circ}25'W$

marked. T. 15. R 22. S. 34. + G. R. & R. 9 M. B. T.

a mon. of stones .3 ft base 2 ft hi, bear

S. $36^{\circ}25'W$. 145 lbs. no marks.

A. Mon. of stones west about 16 ch.

no marks of identification.

I destroy all trace of both monuments, the latter I assume to be the $8\frac{1}{2}$ m. Cor. on Woolfley survey, surface, in T. 15, R 22, S. 60 ch level.

Dial. first class, 8 ch. Mountains. Exceptionally difficult & expensive to survey, 1660 chs on account of size of the monuments & dist. to haul stone.

Timber, scattering paloverde on last 8 ch. scattering sage brush and grease wood on first half.

Oct. 24th. at 9.166 m cor at 3 P. M.

I set off. Co lat. arc, $56^{\circ}43' = 33^{\circ}17'$ ^{Lat.}Dial. arc. $11^{\circ}55'$ and determine true ^{meridian}See Note
Page 68 + 69
& report.

chains, 9th. Mile.

North $40^{\circ} 58' W$, on True line.

- 1440 over rocky mountains,
- 16.50 Top rocky ridge, bro S.W,
- 20.00 gulch bro S.W,
- 22.60 abrupt ascent
- 27.00 Summit of long ridge bro S.W,
- 29.00 Foot of ridge enter broken plain -
- 40.00 Gulch 50 bro W, 12 ft deep bro S.W.

Set Stone $22 \times 10 \times 10$ ins - 16 in in ground. Cor. $8\frac{1}{2}$ Mile, Cor. Marked, $8\frac{1}{2}$ M. on N.W, and E.R.I.R. on S.W, sides, and on the S.W. raised a Mound of stones. 5 ft base. $2\frac{1}{2}$ ft hi. 4 ft from the Cor, from which Apaloverde. 7 ins diam. bro S. $46^{\circ} 23' E$. 1.64 marked. T. 15. R 2 E. S. 34. E. R. I. R. $8\frac{1}{2}$ M. B. T.

Apaloverde. 9 ins. diam. bears N. $86^{\circ} 23' E$ 23 ⁴/₄

Marked. G. R. I. R. $8\frac{1}{2}$ M. B. T. ^{hit by Wolfleg.}

- 4700 W. of this mass, about 18 ch. distance 8 m. Cor. th
- 4900 Dry wash looks W. bro S.W.
- 6500 Rocky point of low ridge bro E. 1.00
- 67.00 Deep gulch. 10 ft deep. bro S.W,
- 73.00 Foot of ridge. Steep ascent,
- 78.00 abrupt ascent.
- 80.00 Set Stone $30 \times 9 \times 8$ ins, 16 in in

chains 9th mile,

ground, (ground too rocky to dig deeper). for 8 mile cor, marked 8 M. on N.W. and G.R. & R. on S.W. sides. and raised a mound of stones 5 ft base. 2 1/2 ft high. 4 ft S.W. of the cor. from which.

Apaloverde 6 ins. diam. bears S. 84° 40' E
104 lbs.

Marked. T. 15 R. 2 E. S. 34. G.R. & R. 8 M. B.T.

Apaloverde. 5 ins. diam. bears N. 16° 25' E
87 lbs.

Marked. T. 15 R. 2 E. S. 34. G.R. & R. 8 M. B.T.

Apaloverde 3 ins. diam. bears S. 130° 40' W
79 lbs. (marked on upright branch)

Marked. G.R. & R. 8 M. B.T.

No other trees near, suitable for P.T.

Surface uneven, rocky & precipitous.

Soil Rocky, worthless.

Timber scattering Paloverde and ironwood.

Mountainous land so ch.

Oct. 24th.

chains .8th Mile.

N. $40^{\circ}58'W$, on true line.

0.75 Summit of high Rocky ridge or spur
from Mountain hrs. S.50W.

0.85 About descent,

1.5.00 Enter sloping ground

18.00 Dry wash .40 hrs W. hrs SW.

Enter broken ground of wide valley
25.40 wash 25 hrs W. hrs SW

30.00 " 20 " "

38.00 " 15 " "

40.00 Set stone $22 \times 12 \times 9$ ins - 16 ins in

ground for $7\frac{1}{2}$ Mile Cor. marked
 $7\frac{1}{2} M.$ on NW, and G.R. I.R. on

S.W. sides and raised a mound
of stone 5 ft base 3 ft hi. on S.W. side
4 dist from the Cor. from which

Apalounde 5 ins diam. hrs. S. $11^{\circ}23'E$. 271 lbs.

Marked T. I. S. R. 2 E. S. 28. G. R. I. R. $7\frac{1}{2} M. B. T.$

An Ironwood 11 ins diam hrs. N. $26^{\circ}50'W$. 307^{lbs.}

An Ironwood 6 ins diam hrs. S. $49^{\circ}05'E$. 293^{lbs.}

Marked G. R. I. R. $7\frac{1}{2} M. B. T.$

Chains. 8th Mile.

Paloverde 7th ins. diam. hrs. N. 55° 00' W. 319 1/2 lbs.

Marked, G.R.I.R. 7 1/2 M. B.T.

A ~~wide~~ pass between two ranges

hrs. N. 17° 30' E about 3 miles dist.

57.75 Dry wash. 50 lbs wide brown

60.00 " " 20 " " " "

73.70 " " 20 " " " "

80.00 Set a stone 21 x 12 x 10 ins. 18 ins in

ground for 7 mile cor. marked.

7 M. on NW. and G.R.I.R. on SW sides

and raised a mound of stone 5 ft base

3 ft hi. 4 ft S.W. of the cor. from which

An Ironwood. 8 ins. diam. hrs. S. 13° 13' W 170 lbs

Marked. G.R.D.R. 9 M. B.T.

An Ironwood. 10 ins. diam hrs. N. 33° 36' W 316 lbs

Marked. T.I.S.R. 2 E. S. 28. G.R.D.R. 9 M. B.T.

Paloverde 8 ins diam. hrs. S. 58° 54' E. 299 lbs.

Marked, T.I.S.R. 2 E. S. 28 G.R.I.R. 9 M. B.T.

Paloverde. 12 ins diam hrs. N. 2° 00' W. 479 lbs.

marked. T.I.S.R. 2 E. S. 28. G.R.I.R. 7 M. B.T.

Surface 80 ch. broken + rocky, 15 ch. steep,
Soil worthless, timber scattering, Paloverde
and vine weed
Exceptionally difficult to survey + mountainous, both

North East Boundary G.R. & A.

BOOK 2010

chains. 7th Mile,North $40^{\circ}58'W$. on True line.

15.50 Dry Wash, 50 lks W. bears W.

40.00 The point for $\frac{1}{2}$ mile Cor. in center
of wash. 20 lks W. brs. N of W.40.50 Set stones $20 \times 15 \times 8$ ins. 16 ins in ground
for witness cor to $6\frac{1}{2}$ mile Cor.
marked W.C. $6\frac{1}{2}$ M. on NW. and G.R. & R.
on SW. sides, and raised a mound of stone
5 ft. base, $2\frac{1}{2}$ ft. high, 4 ft S.W. of the
Cor. from which.An Ironwood 10 ins. diam. brs. N $52^{\circ}30'W$.
37 lks W.C.
marked _N G.R. & R. $6\frac{1}{2}$ M. B.T.An Ironwood, 12 ins diam. brs. S $46^{\circ}50'W$
46 lks.
Marked W.C. G.R. & R. $6\frac{1}{2}$ M. B.T.An Ironwood, 6 ins diam. brs. S $56^{\circ}40'E$. 90 lks
marked W.C. TIS. R. $2E$. S. 21 + G.R. & R. $6\frac{1}{2}$ M. B.T.A Paloverde 8" diam. brs. N $30^{\circ}10'E$, 69 lks.Marked W.C. TIS. R. $2E$. S. 21. - G.R. & R. $6\frac{1}{2}$ M. B.T.About 20 chs. W. find traces of Washley Mound ^{already destroyed} 6 mi

North East Boundary G.R.R.⁴⁹

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Chains. 7th Mile.

North 40°58'W. on True line.

50.00 Summit of flat ridge leading from Range

61.20 Old Road to Gila crossing below N+S.

68.90 Main Road to Gila River Reservation.

80.00 Set Stone 20x15x12 ins - 15 ins in the

ground. for 6 mile cor. marked B.M

on N.W. and G.R.I.R. on S.W. sides and

raised a mound of stone 5 ft base, 3 ft

high. 4 ft S.W. of the cor. from which,

An Ironwood .16 ins. diam. brs. S. 6°14'W. 447^{lbs}

Marked G.R.I.R. 6 M. B.T.

An Ironwood .10 ins. diam. brs. N. 28°00'W. 389^{lbs}

Marked. T. 15. R. 22. S. 20. - G.R.I.R. 6 M. B.T.

An ironwood 10 ins. diam. brs. N. 35°36'E. 430^{1/2}^{lbs}

Marked. T. 15. R. 22. S. 20. G.R.I.R. 6 M. B.T.

No other bearing object near.

Peak at west end of Range brs. N. 20°15'E.

Chimney. S. side Lugo Trading Stone brs. N. 13°02'W

Surface. 60 chs. broken & rocky, 70 level.

Soil. 60 chs. worthless, 20 ch. med class

Exceptionally difficult and opening to rocky 60 ch.

Mountainous land. 60 ch.

North East Boundary. G. R. I. R.

BOOK 2010

Chains. 6th mi.

North $40^{\circ}58'W$, on True line.

38.00 Road brs. S.W. and N.E to Lays Sta.

40.00 Set Stone $22 \times 12 \times 8$ ins. 16 in the ground
for $5\frac{1}{2}$ Mile Cor. marked, G. R. I. R. on N.W.and $5\frac{1}{2}$ M on N.E. side. (The stone
chipped off on N.W. side so letter could not
be plainly made) and raised a mound
of stone 5 ft. base, 3 ft high. 4 ft, S.W. of Cor.from which a paloverde 4 ins diam, brs. S. $61^{\circ}W$,
173 lbs.Marked. G. R. I. R. $5\frac{1}{2}$ M, B.T.A. mesquite 18 ins diam, brs. S. $29^{\circ}E$. 189 lbs.Marked. G. R. I. R. $5\frac{1}{2}$ M, B.T.A paloverde growing stump $3\frac{1}{2}$ ft hi. 10 ins. diambrs. N. $15^{\circ}22'W$, 432 lbsMarked. T. I. S. R. 2 E, S. 20. G. R. I. R. $5\frac{1}{2}$ M B.T.A paloverde. 10 ins. diam, brs. N. $86^{\circ}06'E$, 316 lbs.marked. T. I. S. R. 2 E, S. 20. G. R. I. R. $5\frac{1}{2}$ M. B.T.
destroyed old bdy cor. found about 200 ft W. ^{near road} ~~the~~ ^{mark}

41.25 Road brs. S.W.

59.65 Small water course, banks not defined
along S.W.

Behavies. 6th. mile.

76.65 Road hrs. S.W.

80.00 Set Stone 20x12x12 ins. - 16 ins. into ground for 5 mile cor., marked 5M on N.W. G.R.I.R. on S.W. sides.

No Natural Bearing objects near.

Deposit. broken glass 24 ins

Deep under stone and raised a mound of stone 5 ft base. 3 ft hi. 4 ft

S.W. of the corner, destroyed Wolfly bdy. for which is found about 2000 feet N.W. 4 1/2 Chimney on S. side. M.C. Dwyer trading store

brs. S 65° 35' E. High Pk at W. end of range brs. S 58° 30' E.

land level.

Soil sandy loam, with, spots of gravel.

Timber, scattering scrubby mesquite,

Sage brush, and greasewood, cactus, Exceptionally difficult to run to rocky. Dense under growth. Rocky.

on Oct. 25th at the 5 mi cor. at 4 P.M.

Set off. co lat. 56° 39' = 33° 21' lat.

Lecl. arc. 12 1/2' and determine true meridian.

52. North East Boundary, G.R.I.R.
BOOK 2010

chains. 5th Mile.

- 1.68 Road bvs N.E.
- 19.65 new Road bvs N.E.
- 37.90 old Road bvs S.W.

40.00 Set Stone 28x9x9 ins - 20 ins
 in ground. for 4 1/2 Mile Cor.
 marked. 4 1/2 M. on N.W. and G.R.I.R.
 on S.W. sides. and raised a mound
 of Stone 5 ft base. 3 ft high. 4 ft
 S.W. of the Cor. from which
 a Mesquite. 4 ins diam. bvs N. 87° 08' in
 383 lbs.
 marked. G.R.I.R. 4 1/2 M. B.T.

a Mesquite (growing stump 3 ft high)
 1 1/2 ins. diam. bvs S. 83° 08' E. 266 lbs
 Marked. T. 1 S. R. 2 E. S. 17 - G.R.I.R. 4 1/2 M
B.T.

No other leaving objects near -

- 51.80 Road bvs N.E.
- 66.30 Road bvs S.

80.00 Set River boulder 32x9x8 ins
 26 ins in ground. for. 4 Mile Cor.

Chains. 5th mile.

marked 4 M. G. R. I. R. on S.W.
side. (the NW. edge does not
present good surface for marks),
and raised a mound of stone
5 ft. base. 3 ft. hi. 4 ft. S.W. of
the cor. from which

A. mesquite 6 ins. diam. brs. S. $37^{\circ}42'2''$
494 lts.
marked. G. R. I. R. 4 M. B. T.

A. mesquite .5 ins. diam brs. N. $81^{\circ}0'2''$ E. 291 ^{lts}
marked. T. I. S. R. L. E. S. 18. - G. R. I. R. 4 M. B. T.
A. mesquite, growing stump 3 ft. hi. 12 inches
leaves. N. $72^{\circ}12'W$, 512 $\frac{1}{2}$ lts.

No other trees near.

Surface level.

Soil 2nd. class.

Timber. Scattering Mesquite.

Sage brush, and cactus.

80 chains exceptionally difficult to run
80 chains dense undergrowth,

Oct. 25th

BOOK 2010

Chains, 4th mile,North $40^{\circ}58'W$, on True line.

Over level mesa.

35.15 Well traveled road bvs. $S 48^{\circ}E$.40.00 Set River boulder $35 \times 9 \times 8$ ins.,24 ins in ground for $3\frac{1}{2}$ Mile Cor.Marked $3\frac{1}{2}$ M. G. R. I R. on S.W. side.

(N.W. face. can not be plainly marked)

Deposit quart of Charcoal under
stone 24 ins deep. and raise

a mound. of stone 5 ft base 3 ft hi.

4 ft. S.W. of the Cor. No bearing trees near.

Woolfley bds. Cor. 3 mile. find 20 ch W &

50.70 Road bvs. S.W. destroy.

64.40 " " "

80.00 Set Stone $20 \times 15 \times 10$ ins. - 15 ins in

ground. for 3 Mile Cor. marked

3. M. on N.W. G. R. I R. on S.W. side.

under stone deposit quart of charcoal

24 ins deep, and raise a mound

North East Boundary to R.R. 55

BOOK 2010

Chains. 4th mile concluded,
5 ft base, 3 ft hi, 4 ft. S.W. of
the Cor.

No. bearing objects near.

Surface level.

Sail 1st Class.

Timber none.

Sage brush.

Dense under growth 30 ch -
Exceptionally difficult to survey so etc.

3rd, Mile.

N. $40^{\circ}58'W$, on true line,

Road 600 S. of W.

Road 600 S. of W.

1.65
34.60

40.00

Set river boulder $26 \times 10 \times 8$ ins. 20 ins. in ground
for the $2\frac{1}{2}$ Mile Cor. Marked $2\frac{1}{2}$ M. on N.W. and
G.R.I.R. on S.W. sides, deposit quantity of glass
under weath stone and raise a mound
of stone 5 ft base. 3 ft hi, 4 ft. S.W. of the Cor,
There are no natural bearing objects and being in low
place. I establish a bearing object 50 lbs S. on

Chains. 3rd. Mile — Concluded.

high ground (from which line can be seen
a long distance each way) by setting
A large black stone $36 \times 12 \times 10$ ins. (8×9 ins
at top.) large end down. Marked. W.C. 2 1/2
M. on N.W. G.R.I.R. on S.W. deposit great
Charcoal underneath. dig pits 36×30 ins
crosswise of line N.W. + S.E. and raise mound
of earth 5 ft base $2 \frac{1}{2}$ ft hi. 4 1/2 W of cor.

60.00 Crosses low ridge (or. W. and descend.

63.00 Enters batters land, at foot of mesa.

79.25 Dry water course, (or. W. banks not defined.

80.00 Set River boulder $32 \times 10 \times 8$ ins - 20 ins in ground
for 2 Mile Cor. marked. 2 M. on N.W. G.R.I.R. on
sides, deposit quantity of broken glass, + rub. stone,
under stone, and raise a mound of stone
5 ft base, 3 ft hi. 4 ft. S.W. of the Cor.

No Bearing trees near.

Surface. 1st half level. broken by ancient ruins

2nd half broken

Soil. 1st half. 1st class. 2nd half. 3rd class

Timber - low edge 1st half. few mesquite, sage

brush, greasewood. 2nd half. 23 ch. Rough ground

Chains. Exceptionally difficult & expensive to survey.
 2 incl. Mile. 80 chains.

N. 40° 58' W. on True line.

860 Wire fence. bvs. E+W. enter claimed under
 U.S. Patent by W. N. Price, at a point from
 which the S.E. cor of fence bears east 21.20 ch.
 and enter dense mesquite grove.

33.30 Wire fence, enter alfalfa in mesquite timber.

40.00 Set a stone 30x12x7 ins. in W. border of alfalfa
 20 ins in ground. for 1 1/2 mile Cor. marked
 1/2 M (as illustrated) on N.W. G.R.I.R. on S.W.

and raised a mound of stone 5 ft base
 3 ft hi. 4 ft. S.W. of Cor. from which

A mesquite 12 ins diam bvs. S. 20° 30' E. 176 lbs
 marked, G.R.I.R. 1 1/2 M. B.T.

A mesquite 14 ins. diam. bvs. N. 83° 03' E. 381 lbs
 marked, T. I. S. R. I. E. S. I. G. R. I. R. 1 1/2 M. B.T.

A mesquite 20 ins. diam. bvs. N. 21° 26' E. 214 lbs
 marked, T. I. S. R. I. E. S. I. G. R. I. R. 1 1/2 M. B.T.

40.40 Fence N. + S. and leave Price's Claim.

41.05 Fence N. + S. W. side of road. Enter Field

51.35 Irrigating ditches 12 bvs. bvs. W. Enter alfalfa

74.10 Main Indian irrigating canal. 15 bvs.

75.00 Road. bvs. E+W. and descend to lower land -

80.00 Set white river boulders, 28x12x10 ins. (9x8 ins)
 at top, 20 ins in the ground. Marked 1 M.
 on N.W. G.R.I.R. S.W. side, and raised a mound
 of stone 5 ft base. 2 1/2 ft high. 4 ft S.W. of Cor.
 and dense undergrowth.

Chains. 2nd Mile. concluded.

from which a mesquite, (growing straight)

2 1/2 ft high 12 ins diam. brs. S. 35° 53' E. 419 lbs.

marked. low upright branch. 6" diam. G.R.I.R. 1 M. B.T.

A. mesquite. 6 ins. diam. brs. S. 71° 48' E. 819 lbs.

marked. T.I.N. R.I.E. S. 35 - G.R.I.R. 1 M. B.T.

Surface level. /

Soil 2nd rate.

Timber. Mesquite - 32 Chs. heavy timber

Exceptionally difficult to Survey 80 Ch.

J. J. Cattle claims (S 1/2 S E 1/4 Sec. 35. T.I.N. R.I.E.
at 1 mile corner - N. 1/2 N E 1/4 Sec. 2. T.I.S. R.I.E.)

Oct. 26. at 2 P.M. found. set off. Co. lat 86° 37'

Dec. anc. 12° 36' and determine true mer.

1st. Mile.

N. 40° 58' W. on true line.

- 7,64 Small irrigating di. & lks w. brs. w. claim Cattle Claims
- 12,90 Main indian road down Valley brs. W.
- 21,25 Pt. for Waters Cor. on Main S. Bank of Salt River
above hi water mark. enter old channel. 4000.
- 33,00 High bank. enter River Bottom.
- 40,00 Point for 1/2 Mile Cor. deposit blue glass
2 ins in gravel bar. subject to overflow and

Chains. 1st Mile.

At a point on line S40°58'E. 18.75 chs. dist.

Set White Stone, 20x12x10 ins. 16 ins in ground

marked. W.C. ^{M.C.} 1/2 ^{on N²} M. ^{G.R.} I.R. 1/2 M. S.W. side fora Witness Cor. and raised a mound of
stone 5 ft base, 2 1/2 ft high 4 ft S.W. of Cor.
from which a cottonwood, 12 ins. diam. br. N. 85° W. 4.45 lbs.

Marked. W.C. 1/2 M. G.R. I.R. B.T.

A Cottonwood 14 ins. diam. br. N. 25° E. 1.66 lbs.

Marked. W.C. T. I. N. R. I. E. S. 35 - 1/2 M. G. R. I. R. B. T.

42.30 Leave gravel bar, enter broken bottom,
or channel.

71.00 Enter gravel bar, 5 ch wide.

76.85 South Bank, of low water channel of Salt River,

80.00 The initial point at the center of low
water channel, the N.E. Cor. of the Gila
River Indian Reservation. falls in water.
I find there is no safe ground above
high water mark, on either line to
south of this point. nearer than 40 chs.
upon which to establish a Witness Corner.

Therefore deem it the best practice to locate the corner on the north bank of river, though without the limit of the Reservation, which is high permanent bank, 25 ft above the river channel.

Run N. 40° 58' W. on line of the N. 2 bdy extend 4.00 ch. Set a river boulder 30 x 9 x 8 ins. 20 in the ground, for Witness Corner, to the

Initial Monument of the G. R. I. R. marked, W.C. I.M. G. R. I. R. on S.W. side, and raised a mound of Stone of Stone 5 ft base, 2 1/2 ft hi, 3 ft S.W. of the Cor. from which.

A. Mesquite 12 ins diam. br. N. 40° 58' W. 25 lbs. marked. W.C. I.M. G. R. I. R. B.T.

A. Mesquite 10 ins diam. br. S. 82° 42' W. 275 lbs. marked. T. I. N. R. I. E. S. 34. W.C. I.M. B.T.

A. Mesquite 15 in diam. br. N. 15° 35' W. 139 lbs. marked. W.C. I.M. G. R. I. R. B.T.

A mesquite 9 in diam. stump, 4 ft hi. 16 in diam br. N. 52° 30' E. 455 lbs. marked. W.C. T. I. N. R. I. E. S. 35. G. R. I. R. B.T.

Surface broken. Soil sand, gravel, & loam

Timber Cottonwood, Willow, & brush. Exceptionally difficult & expensive to survey 50 ch. 80 chains dense timber and undergrowth

Oct. 26th

North East Boundary of the Lila
River Indian Reservation

BOOK 2010

BOOK 2010

In the execution of this survey I have been unable to find all of the boundary monuments on the Reservation lines and Closing Corners of Section lines on said Bdy. during the ^{Regular} course of survey of the lines which I have run, as established by Deputy Louis Wolfley, under his contract No. 38 & 39, and which corners I am required to destroy under my special instructions from the Surveyor General. I am therefore obliged to follow out or retrace portions of said Bdy. line by the aid of my instrument and measurements to find and destroy the monuments and corners not mentioned in the body of the field notes.

By information from Mr. ^{S. W.} _N ^W _V at the

North East Boundary of the Hills River
Indian Reservation.

BOOK 2010

Trading post on Sec. 34, T. 1 N., R. 1 E. I find the 1 mi
Cor on the Body South of Trading post about
25 ch. on E. side of mesquite tree. 13 lbs disc
Which is a large Monument of stones, one
stone set in ground on N.E. side and
marked and witnessed as described in
field notes furnished by the surveyor general.
I obliterate this Cor. and from it run
N. $42^{\circ} 00' W.$ on a blank line.

40.18 Chs. I find a few scattered stones
22 lbs. E. I am then informed
by an Indian that a large mound
of stone stood at that point. found
no trace of marked stone, falls
in Indian field or garden, under
cultivation. I had previously
spent nearly $\frac{1}{2}$ da. in hunting for
this cor and fail to find it from
all lines of approach. This was
what remained of $\frac{1}{2}$ mile Cor.

North East Boundary of the Kila River
Indian Reservation.

BOOK 2010

From the point at which I found
the 1 mile Bdy. Cor. I ran
S. $42^{\circ} 00' E$, on a blank line.

40.05 A stone set firmly in ground with
mound of stone on S.W. stands 10 lbs
W. and is marked as described
by the surveyor general for the
mile cor on the Wolfley Bdy.
I destroy and remove all traces
of the same.

The 2 mi. cor not having been
found. I run from this point.
S. $42^{\circ} 00' E$, on a blank line.

40.10 A stone set firmly in the ground
8 lbs E. with mound of stone
on S.W. stone marked as described
by the surveyor general for the 2
mile cor. on Wolfley Bdy.
I destroy and remove all traces
of this cor. and then run

BOOK 2010

S. 42° 00' E. on a blank line.
 39.97 A Stone set firmly in the ground
 15 lbs East. marked and witness
 with mound of stone on S.W.
 3 ft base. 2 ft hi. of small stones
 for the 2 1/2 mile cor. on the Wolfley
 Body, which I remove and
 destroy all trace of same.

From point where I found
 the Wolfley Body, Cor. Marked.
 3 m. as described on page 54
 I Run S. 42° 00' E. on a blank line.
 40.17 A stone set firmly in the ground.
 17 lbs. Easterly. marked. 3 1/2 m. and
 witness with mound of stone as
 described by the Surveyor general
 for the 3 1/2 mile cor on Wolfley Body.
 I remove and destroy all trace
 of this cor. and there is run

North east Boundary of the
Gila River Indian Reservations

BOOK 2010

S. $42^{\circ}00'E$. on a blank line.
39.93 A Stone set firmly in the ground,
marked as described by surveyor
general for .4 mile cr on the
Wolfley bdy. The mound of stone
is already destroyed and stones
scattered. I remove and destroy
all trace of this Cr.

From point where I found the
old bdy. Cr. 6 Mi. described on
page 48. on west side main road
to Gila Crossing, and already destroyed.

I run. N. $42^{\circ}00'W$. on a blank line.

40.40 A mound of stone 3 ft base 2 ft high
35 lbs. E. a stone, on surface,
near by. $12 \times 12 \times 12$ ins. size.
 $5\frac{1}{2}$ M. has evidently been the $5\frac{1}{2}$
mile cr on old bdy. I remove

North East Boundary of the
Gila River Indian Reservation

and obliterate all trace of it

From the point where I found the
remains of old bdy. more, 6 mi.
described on page 48. I run
S. 42° 00' E. on a black line.

40.22. A stone set firmly in the ground
for the old bdy. cor. 6 1/2 mi. more
and witnessed as described by
the surveyor general, I destroy
all traces of it, and run
S. 42° 00' E. on a black line.

40.09 A stone 20 x 10 x 8 ins loose in
the ground on S. bank of dry
wash 6 or 7 mi. W. for 7 mi. cor. on
old bdy, marked & witnessed as
described by the surveyor general
I remove and destroy all traces
of it.

North East Boundary of the
Gila Indian Reservation

All other corners of the old body line have been destroyed as described in the body of the field notes.

The Closing Corners on the old body, as established by Wolfley when found intact consisted of large Mesquite or ironwood posts, about 5 ft. h. and 4 to 6 in sq. I believe these corners were nearly all destroyed by the Indians as I am informed by the post traders that they have found Cord wood sticks bought from Indians to have marks of figures and letters, this has added much to the labor and expense of finding and destroying these corners. If any of the mounds and pits remain undestroyed I believe

North East Boundary of the
Gila River Indian Reservation

they may not lead to confusion as
they are so far distant from the newly
located Boundary.

Note: On page 43 of these field notes at the
completion of the 16.60 Chs. of the 10th mile of the boundary
line falling on public land, and marked
by stones containing 2000 cubic ins. or more
marked as described and witnessed with
stone monuments, 5 ft box x 2 1/2 ft high or more
and thereafter on pages 47-49-51-53-55 57
58 and 60, I have noted as "Exceptionally different
and expensive to Survey 80 Chs." which is
intended to mean: That the marked stones and
monuments as called for in my special instructions
from the surveyor general, are of such size and
dimensions, and the transportation of the same
from the points where obtained to the point where
used, and in otherwise complying with the requirement
of the special instructions which I did not anticipate
when taking this contract, with my understanding

North East Boundary of the
Gila River Indian Reservation

of the manual of instructions, the work
on said lines was "Exceptionally difficult
and expensive to survey, and for these
reasons I ask for the higher rates
on this portion of the survey

North East Boundary of the
Gila River Indian Reservation

General Description.

The portions of T. 1 N. 4 S. R. 1 E. traversed by the North East Boundary of the Gila River Indian Reservation, and connecting lines contain nearly all kinds of land & soil found in this country. River bottoms, broken by channels, islands, sand bars, gravel bars, bench land along each side of Salt River, mesa land on the south of the river and mountains in the South eastern part of T. 1 S. R. 2 E. The Soil on bench lands is alluvial loam and alkali; on the mesa sandy loam and in the mountains rocky.

The timber, is cottonwood, willow and brush in the River bottoms. On the benches & mesa, Mesquite.

North East Boundary of the
Gila River Indian Reservation

Droowood, sage brush and
greasewood brush. The Droowood
grows mainly at the base of
Mountains and Paloverde
at the base and high up in
the mountains.

It should be noted here that
most of the timber is low and
scrubby and valuable only
as firewood. and it is
difficult to find trees that
serve the requirements of beam
trees, being frequently, knotty,
cross grained or decayed so as
not to present a fair surface
for marking.

The mountains above described
show some indications of
mineral, but nothing of value
has apparently been found

North East Boundary of the
Mila River Indian Reservation.

in this township, though work
is being done on claims farther
east in the same range.

I would recommend that the
Indians on the Reservation be
warned through the proper authority
not to molest or destroy the
Monuments and corners established
under this survey.

I would respectfully recommend that
the Initial Monument of the Public Survey
and the exterior corners of the Indian
Reservation be reestablished by the
erection of more permanent
monuments of masonry or metal.

Herbert R. Patrick
U. S. Deputy Surveyor.

A List of the Names of the Individuals
 employed by Herbert A. Patrick
 U. S. Deputy Surveyor, to assist in running, meas-
 uring and marking the lines and corners described
 in the foregoing Field Notes of the survey of the
 North East boundary line of
 the Gila River Indian Reservations
 in Tps 1 N R 1 E. and
 Tps 1 S R 1 & 2 E, and
 Tps 2 S R 2 E

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

Alfred J. Hayes Chainman.

Chainman.

John F. Briggs Chainman.

Chainman.

John R. Moore Axeman.

Axeman.

Joseph Vuelva Flagman.

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Final Oath of Assistants.

We hereby certify that we assisted Edenbert
R. Patrick U. S. Deputy Surveyor, in
 surveying all those parts or portions of the North
East boundary line of the
Gila River Indian Reservations
in Tps 1 N. R 1 E. and Tps 1 S.
R 1 & 2 E. and Tps 2 S. R.
2 E.

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.

Alfred J. Hays, Chainman.

John D. Briggs, Chainman.

Chainman.

Chainman.

Axeman.

John B. Mose, Axeman.

Joseph H. Kibba, Flagman.

Sworn to and subscribed before me, this 29

day of November, 1899.

Em. Wickersham

Notary Public.

My Commission
 expires [SEAL.]

March 7 1902

BOOK 2010 757
nal Oath of U. S. Deputy Surveyor.

I, Norbert A. Patriak

J. S. Deputy Surveyor, do solemnly swear that in
pursuance of a contract received from Royal A.
Johnson, United States Surveyor-General for Ari-
zona, bearing date of the 17th day of
April

1897, I have well, faith-
fully, and truly, in my own proper person, and in
strict conformity with the instructions furnished by
the United States Surveyor-General for Arizona,
the Manual of Surveying Instructions, and the
laws of the United States, surveyed all those parts

or portions of the North East boundary
line of the Gila River Indian
Reservations in Tps 1 N. R 1
E. and Tps 1 N. R 2 E
and Tps 2 N. R 2 E.

of the Gila and Salt River Base and Meridian, in
the Territory of Arizona, as are represented in the
foregoing Field Notes as having been surveyed by
me and under my direction; and I do further
solemnly swear that all the corners of said surveys
have been established and perpetuated in strict
accordance with the Manual of printed instructions,
the special instructions of the United States Sur-
veyor-General for Arizona, and in the specific

76 manner described in the field notes, and that foregoing are the true Field Notes of such survey and should any fraud be detected I will suffer the best penalty of perjury, under the provisions of an act of Congress approved August 8, 1846. in

Herbert R. Patuek
U. S. Deputy Surveyor.

Sworn to and subscribed before me this 29

day of November 1899

My Commission E. M. Wickersham
expires March 7 1902 Notary Public

BOOK 2010

U. S. Surveyor-General's Office,
Tucson, Arizona, Oct. 15, 1900.

The foregoing field notes of the survey of *The North East Bdy. of the Gila River Indian Reservation*

of the G. & S. R. B. & M., Arizona, executed by

H. R. PATRICK, D. S.,

under his contract No. 51, dated April 17, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes and the surveys they describe are hereby approved.

George Christ

U. S. Surveyor-General.