

No. 1

No. 1267

Exteriors.

Part of S. Bdy.	T. 3 N. - R. 3 E.
E. Bdy.	" "
N. Bdy.	" "
W. Bdy.	T. 4 N - R. 2 E.
E. Bdy.	" "

1267

BOOK 1267

4-671

FIELD NOTES
GENERAL LAND OFFICE.

McIntosh
 Lot ^{part} Runway by Powers (in 1874)
 for S. & E. Bdy. T. 3 N. R. 3 E. (this page)

No. 1267

BOOK 1267

Field Notes
of the Survey of the

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of the
Principal Base & Meridian
in the

Territory of Arizona

as surveyed by

James H. Martin

U. S. Deputy Surveyor

under his contract no. 30

dated June 21st 1893.

— " —

Survey commenced Dec. 24, 1893

Survey completed Dec. 30, 1893

~~See Re-survey of East & South of Notes~~

~~of T. 3 N. R. 3 E.~~

Preliminary Oaths of Assistants.

We, *Benjamin S. Johnson*
 and *Arthur Openshaw*
 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 *South Boundary*
of T. 4 N. R. 1 East — and the
Exteriors and Subdivision
lines of Sp. 3 N. R. 3 E. — Sp. 4
m. Ranges 2 & 3 E. and Sp. 5 N.
Ranges 2 and 3 East
 of the Gila and Salt River Base and Meridian in
 the Territory of Arizona.

Benjamin S. Johnson Chainman.

Arthur Openshaw Chainman.

..... Chainman.

..... Chainman.

Subscribed and sworn before me, this *13* "

day of *December* 189*3*

East Johnson
Notary Public.

[SEAL] BOOK 1267

We, Theodore Martineau
and Eli Openshaw

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

and Corner Builders, and
Walter Brimhall as flagman
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 S. 1.

Body of Tps. 4 N. R. 1 E. - and the
Extension & Subdivision in lines of Tps. 3 N.
R. 3 E., Tps. 4 N., Ranges 2 & 3
E. - and Tps. 5 N. Ranges
2 and 3 East

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

Theodore Martineau
Eli Openshaw
Walter Brimhall

BOOK 1267

Subscribed and sworn to before me this 13th

day of December 1891

Just J. Jones
Notary Public.

INDEXES.

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6	5	4	3	2	1

6
+
12 14 7

T3N-R3E.

13 12 18
+
24 11 19
+
25 9 30
+

35 36 8 31
+ 5 + 4 +

1 37 6

1 49 6

12 36 7

12 48 7

13 34 18

T4N.-R.2E.

13 46 18

24 32 19

24 45 19

25 30 30

25 44 36

36 29 31

36 42 31

Survey of Survey of
Part of S. Body. T. 3 N. R. 3 E

BOOK 1267 4

From the cor. to Tps. 2 & 3 N.
R's 3 and 4 E. I run
West on a true line
bet. Secs. 1 & 36
Va. $13^{\circ}40'8''$.

Descend S.W. slope of mts. and
over very mountainous land

- 9.40 Deep Gulch, course N.
14.00 Top of ^{steep} ridge, bears to N.
21.00 foot of same. Thence along
north slope of Phoenix Mts.
40.00 Set a stone $12 \times 12 \times 10$ ins. 8 ins.
in the ground for $\frac{1}{4}$ sec cor.
Mkd. $\frac{1}{2}$ on N. face, and raised
a mound of stones $1\frac{1}{2}$ ft high 2
ft base alongside. Pits
impracticable.
80.00 Set a stone $16 \times 12 \times 10$ ins. 10
ins. in the ground for cor. to

0-

Part of South Boundary

Secs. 1, 2, 35 & 36, mkd, with
 1 notch on E. and 5 notches
 on W. edges, and raised
 mound of stones $1/2$ ft high 2
 ft base alongside. Pits
 impracticable.

Land mountainous
 Soil none. Rocky
 No timber

Mountainous 80.00 Chs.

West on a true line bet.

Secs. 2 & 35-

Va. $13^{\circ}40'$ E.

Along steep N. slope of mts.

40.00 Set a stone $15 \times 10 \times 10$ in
 a pile of stones for $1/4$ Sec. Cor.
 Mkd. $1/4$ on W. face, and

of J. S. H. R. S. E.

raised a mound of stones $1\frac{1}{2}$ ft high 2 ft base alongside. Pits impracticable.

65.00 Set a stone $16 \times 10 \times 9$ in 11 in in the ground for Witness Cor. to Secs. 2, 3, 34, 35, mkd. with W. C. on N. face with 2 notches on E. and 4 notches on W. edges, and raised mound of stones $1\frac{1}{2}$ ft high 2 ft base alongside.

I find it impossible to extend this line farther west on account of precipitous mountain peak

Land mountainous

Soil - none. Rocky

No timber

Mountainous 65.00 Chs.

Dec. 24, 1893

East Boundary of T. 3 N. R. 3 E.

Survey commenced
Dec. 27, 1893

From the Cor. recently
established by me at Cor. to
Tps. 2 & 3 N. R's 3 & 4 E. I run
North bet. Secs. 31 & 36

Pa. $13^{\circ}40'E$.

Along W. Slope of Mountain

40.00 Set a stone $20 \times 7 \times 5$ - ins 15 - ins
in the ground for $\frac{1}{4}$ Sec. Cor.
Mkd. $\frac{1}{4}$ on W. face and raised
a mound of stones $1\frac{1}{2}$ ft high 2
ft base alongside. Pits
impracticable.

80.00 The Cor. to Secs. 25, 30, 31, 36
hereinbefore described
at West base of mountain.

A stone set by Deputy Powers
for the same point, bears E.

East Boundary of

3 Chs dist. mkd. with 1 notch
on S. and 5 notches on N. edges
and C.C. on W. face
and S on N. face

Land mountainous

Soil 5th rate - rocky

No timber

Mountainous 80.00 Chs.

North bet. Secs. 25 & 30

(Va. 13° 41' E.

Descend gradual slope N.

15.00 Deep dry wash course N. W.

40.00 Set a Stone 14 x 11 x 8 ^{ins} 10 ^{ins}
in the ground for 1/4 Sec. Cor.
mkd. 1/4 on W. face, dug pits
18 x 18 x 12 ^{ins} N. & S. of Stone 5 1/2
ft dist. and raised a mound
of earth 1 1/2 ft high 2 ft base

J. J. R. R. J. E.

Alongside.

Deputy Powers $\frac{1}{4}$ Sec. Cor. bears
E. 305 Chs. dist.

80.00 Set a stone $13 \times 10 \times 9$ ins 9 ins in
the ground for cor. to Secs. 19.
24, 25, 30, mtd. with 2 notches
on S. and 4 notches on N. edges,
Dug pits $18 \times 18 \times 12$ ins in each Sec.
 $5\frac{1}{2}$ ft dist. and raised a mound
of earth 2 ft high $4\frac{1}{2}$ ft base
alongside.

Land nearly level

Soil 4th and 2nd rate

No timber

Dense undergrowth 80.00 Chs.

Deputy Powers' Sec. Cor. bears

N. $89^{\circ} 10' 8$. 3.21 Chs. dist -

East Boundary of

North bet. Secs. 19 & 24

Va. $13^{\circ}40'E$.

Land gradually descends N.

4000 Set a stone $12 \times 9 \times 8$ in 8 inin the ground for $\frac{1}{4}$ Sec. Cor.Mkd. $\frac{1}{4}$ in N. face. Dig pits $18 \times 18 \times 12$ ins. N. & S. of stone $5\frac{1}{2}$ ft. dist. and raised amound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.Deputy Powers $\frac{1}{4}$ Sec. Cor.

bears easterly 1.65 Chs. dist.

7000 Foot of gradual slope, thence
over level land.8000 Set a stone $15 \times 10 \times 5$ in 10 in

in the ground for Cor. to Secs.

13, 18, 19, 24. Mkd. with 3

notches on N. & S. edges.

Dig pits $18 \times 18 \times 12$ ins. in

J. J. W. R. J. E.

each sec. $5\frac{1}{2}$ ft dist. and
raised a mound of earth 2 ft
high $4\frac{1}{2}$ ft. base alongside.

Powers^{see} Corner bears eastward
4.45 Chs. dist.

Land level

Soil 1st rate - loam

No timber

Dense undergrowth 80.00 Chs.

North bet. Secs. 13 & 18

Na. $13^{\circ}40'E$.

Over level land

40.00

Set a stone $15 \times 6 \times 6$ ^{ins} 10 ^{ins}
in the ground for $\frac{1}{4}$ Sec. Cor.

Mkd. $\frac{1}{4}$ on W. face, Dug pits
 $18 \times 18 \times 12$ ^{ins} N. & S. of Stone $5\frac{1}{2}$ in
ft. dist. and raised a mound

East Boundary of

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

Deputy Powers $\frac{1}{4}$ Sec. Cor.
east, distance not noted.

Leave dense undergrowth

80.00

Set a stone $16 \times 10 \times 6$ ^{ins} 11 ^{ins}
in the ground for Cor. to Secs.
7, 12, 13, 18, marked with 4
notches on S. and 2 notches
on N. edges. Dig pits $18 \times$
 18×12 ins. in each Sec. $5\frac{1}{2}$ ft
dist, and raised a mound
of earth 2 ft high $4\frac{1}{2}$ ft base
alongside.

Deputy Powers' Sec. Cor.
bears N. $84^{\circ}42'$ E, 4.31 Chs.
dist.

Land level

Soil 1st rate

J. S. R. S. E.

No timber
Dense undergrowth 40.00 Chs.

North bet. Secs. 7 & 12
Va. $13^{\circ}40'E$.

Over level land

40.00 Set a post 3 ft long 3 ins.
square with mkd. stone 12 ins
in the ground for $\frac{1}{4}$ Sec. Cor.
Mkd. $\frac{1}{4}$ S on N. face. Dig
pits $18 \times 18 \times 12$ ins N. & S. of post
 $5\frac{1}{2}$ ft. dist. and raised a
mound of earth $1\frac{1}{2}$ ft high
 $3\frac{1}{2}$ ft base around post.

Deputy Powers $\frac{1}{4}$ Sec. Cor.
is N. $84^{\circ}43'E$. 5.58 Chs. dist.

80.00 Set a post 4 ft long 4 ins
square with mkd. stone 12 ins in

East Boundary of T. 3 N. R. 3 E.

each line N. S. E. and W. of
Stone 6 ft dist, and raised a
mound of earth $2\frac{1}{2}$ ft high 5 ft
base alongside.

Deputy Powers Sp. Cor. for this
point is 6.70 Chs. dist. N. $84^{\circ}21'E$.

Land level

Soil 1st rate, Sandy loam

No timber.

Dec. 27. 1893

General Description

Excepting the first mile on south end of this line, which is mountainous, the whole line is very brushy and has in places dense undergrowth. The land on west should be subdivided, that on the east has been.

Survey of N. Bdy. T. 3 N. R. 3 E.

Survey commenced

Dec. 28th 1893.

From the Cor. to Tps. 3 & 4 N.
R's 3 & 4 E. established by
me yesterday I run
West on a random line
bet. Tps. 3 & 4 N. R. 3 E,
setting temporary corners at
every 40 and 80 chains,
and at 5 miles and 78.32
intersect West boundary line
24 cks. North of Cor. to Tps.
3 & 4 N. R's 2 and 3 East.
the falling is therefore 4 cks
per mile, and the return
course N. 89° 58' E.

From the Cor. to Tps. 3 & 4 N.
R's 2 & 3 East I run

Survey of N. Body. T. 3 N. R. 3 E.

N. $89^{\circ} 58' E$. bet. Secs. 6 & 31

Na. $13^{\circ} 40' E$.

Over level land

38.32 Set a Stone $16 \times 12 \times 6$ in - 11 in

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

Trkd. $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ in E. & W. of Stone $3\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base alongside.

45.00 Enter dense brush or undergrowth

69.00 Dry wash, course S. W. (West Channel of Cave Creek.)

74.40 East branch of Cave Creek Wash course S. W.

75.00 Leave dense brush or undergrowth.

78.32 Set a Stone $18 \times 14 \times 6$ in - 12 in in the ground for cor. to Sec.

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Survey of North Boundary of

5.6.31.32, onkd. 1 notch on
 W. and 5 notches on E. edges,
 Dig pits $18 \times 18 \times 12$ ^{ins} in each
 Sec. $5\frac{1}{2}$ ft dirt, and raised
 a mound of earth 2 ft high
 $4\frac{1}{2}$ ft base alongside.

Land level

Soil, 1st rate - Sandy loam.

No timber

Dense undergrowth 30.00 Chs.

N. $89^{\circ} 58' E$. bet. Secs. 5 & 32

Na. $13^{\circ} 40' E$.

Over level land & entire dense
 brush

9.50 Right bank of dry wash,
 course S.W.

11.80 Left bank, same wash.

T. 3 N. R. 3 East

- 12.00 Leave dense brush 18
- 40.00 Set a stone $14 \times 10 \times 8$ ins 9 ins
in the ground for $\frac{1}{4}$ sec. cor. 1
Mkd. $\frac{1}{4}$ on N. face, Dug pits
 $18 \times 18 \times 12$ ins E. & W. 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
alongside.
- 61.55 Road, bears N. E. & S. W.
- 76.50 Road from Phoenix to Union
Mine, bears N. E.
- 80.00 Set a stone $16 \times 10 \times 6$ ins 10 ins -
in the ground for cor. to Secs.
4, 5, 32, 33, Mkd. 2 notches
on W. and 4 notches on E. edges,
Dug pits $18 \times 18 \times 12$ ins in
each Sec. $5\frac{1}{2}$ ft dist, and
raised a mound of earth 2 ft^{no}
high $4\frac{1}{2}$ ft. base alongside. cor.

North Boundary of

Land level

Soil 1st rate, loam

No timber

Dense undergrowth. 12.00 Ch.

N. $89^{\circ} 58' E$. Sect. Secs. 4 & 33No. $13^{\circ} 40' E$.

Over level land

4000 Set a stone $12 \times 10 \times 6$ ins 8 ins in the ground for $\frac{1}{4}$ Sec. Cor. $\frac{1}{4}$ on N. face, dug pits $18 \times 18 \times 12$ ins. E. & W. of cor. $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base along side.

8000 Set a stone $16 \times 10 \times 9$ ins 11 ins in the ground for cor. to Secs 3.4.33.34, $\frac{1}{4}$ Sec. 3 notches on (see page 24.)

N. Body. T. 3 N. R. 3 E.

N. $89^{\circ}58'E$. bet. Secs. 3 & 34

N. $13^{\circ}40'E$.

Over level land

46.00 Set a stone $12 \times 10 \times 5 \frac{ms}{8 \text{ ins}}$ in the ground for
1/4 Sec. Cor. Inkd. 1/4 on N. face. Dig pits $18 \times 18 \times 12 \frac{ms}{ins}$
E. & W. of stone $5 \frac{1}{2}$ ft. dist. and raised a mound
of earth $1 \frac{1}{2}$ ft. high $4 \frac{1}{2}$ ft. base alongside.

54.40 Road bears N. $10^{\circ}E$.

80.00 Set a stone $15 \times 9 \times 8 \frac{ms}{10 \text{ ins}}$ in the ground for
Cor. to Secs. 2, 3, 34, 35, Inkd. 4 notches on W. and
2 notches on E. edges, Dig pits $18 \times 18 \times 12 \frac{ms}{ins}$ in each
Sec. and raised a mound of earth 2 ft high
 $4 \frac{1}{2}$ ft. base alongside.

Level level

Soil 1st rate

No timber

Bush whole distance.

ins

Cor.

F. 3 R. 3 E.

E & W. edges. dug pits 18 x 18
x 12 ins in each sec. 5 1/2 ft
dist. and raised a mound
of earth 2 ft high 4 1/2 ft base
alongside.

Level level

Soil 1st rate

No timber

Brush whole distance

(see page 23 1/2)

N. 89° 5' 8" E. bet. Secs. 2 & 35-

N. 13° 40' E.

Low level land

5.15 Road, bears N.

15.00 Deserted mine building
about 25.00 chs. North

40.00 Set a stone 14 x 12 x 6 ins 10 ins
in the ground for 1/4 sec. cor.

North Boundary of

Mkd. $\frac{1}{4}$ on N. face. Dug pits $18 \times 18 \times 12$ ins E. & W. 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 along - side

73.50 Road, bears N. E.

80.00 Set a stone $12 \times 9 \times 5$ ins 8 ins in the ground for cor. to Sec. 1, 2, 35, 36 mkd, with 5 notches on W. and 1 notch on E. edges, Dug pits $18 \times 18 \times 12$ ins in each sec. $5\frac{1}{2}$ ft dist. and raised a mound of earth 2 ft high $4\frac{1}{2}$ feet base alongside.

Land level

Soil, ¹/₂ rate

No timber

J. 3 N. R. 3 East

Brush whole distance

N. $89^{\circ}58'E$. Let Sec. 1 & 36
 N. $13^{\circ}40'E$.

Over level land

40.00 Set a stone $18 \times 16 \times 4$ ^{ins} $\frac{12$ ^{ins}
 in the ground for $\frac{1}{4}$ Sec. cor.
 Inkd. $\frac{1}{4}$ on N. face, dug
 pits $18 \times 18 \times 12$ ^{ins} E. & W. 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
 alongside.

80.00 The cor. to Tps. 3 & 4 N.
 R. 3 & 4 E.

Land level

Soil 1st rate

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BOOK 1267

J. 3 N. R. 3 E.

No timber

Brush whole distance.

Dec. 28, 1893.

Latitudes, Departures and Closing Errors.

Lines designa- -ted as	True bearing	Dist.	Latitudes		Departures	
			N	S	E	W.
W. Boundary	North	480.00	480.00			
N. Boundary	N. 89° 53' E	478.32	.28		478.32	
E. Boundary	South	480.00		480.00		
S. Boundary	East	478.73				478.73
Convergency		.49				.49
			480.28	480.00	478.81	478.73
			480.00		478.73	
		Error = .28			.08 = Error	

F. 3 N. R. 3 E.

General Description

The south part of this Township is partially occupied by the Phoenix mountains, rough and broken, rising to a probable altitude of 4000 or 5000 feet above sea level. Besides these mountains there are detached groups of mountains scattered through the central and western parts of the Township.

The land lying between these is of first rate quality, and with proposed irrigation will yield abundant crops. There are indications of silver and gold in many places in the hilly parts.

J. H. Martineau

U. S. Dep. Surv^r

West Boundary of

Survey commenced Dec. 29th 1893
From the Cor. to Sp. 3 & 4 N.

Ranges 1 & 2 East lately reestablished by me I run

North bet. Secs. 31 & 36

Va. $13^{\circ} 9' E.$

Over level land

- 7.77 A point 2.63 Chs. W. of Sp. Cor.
Set by Deputy Powers for S.W. cor.
of Sp. 4 N. R. 2 E.
- 31.20 A dry wash 20 cks wide, course
S. W.
- 40.00 Set a stone $15 \times 10 \times 8$ ins 10 ins
in the ground for $\frac{1}{4}$ Sec. Cor.
Mkd. $\frac{1}{4}$ on W. face. Dug pits $18 \times$
 18×12 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
alongside.

J. H. R. 2 E.

46.60 A point 2.69 chs. W. of Cor.
Set by Deputy Powers for $\frac{1}{4}$ sec. Cor.

80.00 Set a stone $20 \times 18 \times 10$ ^{ins} 15 ^{ins} in
the ground for Cor. to Sec. 25, 30

31. 36, mkd. with 1 notch on S,
and 5 notches on N. edges. Dig

pits $18 \times 18 \times 12$ ^{ins} in each sec.

$5\frac{1}{2}$ ft dist. and raised a
mound of earth 2 ft high $4\frac{1}{2}$
ft base alongside.

Land level

Soil 2nd rate, sandy loam.

No timber

Brush whole distance, no dense
brush.

North bet. Sec. 25 & 30

Na. $13^{\circ} 9' 8''$.

West Boundary of
Over level land

- 6.88 A point 3.65 Chs. West of
Sec. cor. set by Deputy Powers.
- 40.00 Set a post 3 ft long 3 l^{ns}
square with mkd. Stone 12 l^{ns}
in the ground for $\frac{1}{4}$ Sec. Cor.
mkd. $\frac{1}{4}$ S on W. face. Dig
pits 18 x 18 x 12 l^{ns} N. & S. of post
 $5\frac{1}{2}$ ft dist, and raised a
mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$
ft. base around post.
- 47.60 A point 4.21 Chs. W. of $\frac{1}{4}$ Sec.
Cor. set by Deputy Powers
- 80.00 Set post 4 ft long 4 ins sq.
with mkd. Stone 12 ins in the
ground for cor. to Secs. 19. 24
- 25.30 Mkd
J. 4 N. S. 19 on N.E.
R. 28. S. 30 on S.E.

J. 4 N. R. 2 E.

(Marks on S. W. and N. W. faces omitted in accordance with instructions) with

2 notches on S. and 4 notches on N. edges. Dig pits 18x18x12 ins. in N. E. and S. E. Secs. 5 1/2 ft dist. and raised a mound of earth 2 ft high 4 1/2 ft base around post.

Level line
Soil 2nd rate. Sandy
No timber

Bush whole distance.

North bet. Secs. 19 and 24

Na. 13° 9' E.

Over level land

7.5' 0 A point 3.16 Chs. W. of Secs
Cor. Set by Deputy Powers.

West Boundary of

- 40.00 Set a post 3 ft long 3 ^{ins}
sq. with rnk'd. Stone 12 ^{ins} in the
ground for $\frac{1}{4}$ Sec. Cor. Wkd.
 $\frac{1}{4}$ S on W. face. Dig pits
18x18x12 ins. N. & S. of post
5 ¹/₂ ft dist. and raised a
mound of earth 1 ¹/₂ ft high
3 ¹/₂ ft base around post.
- 47.50 A point 3.42 Chs. W. of $\frac{1}{4}$
Sec. Cor. Set by Deputy Powers.
- 80.00 Set a post 4 ft long 4 ins.
sq. with rnk'd. Stone 12 ^{ins} in the
ground for cor to Secs. 13, 18, 19.
24 rnk'd.
T. 4 N. S. 18 on N. E.
R. 28, S. 19 on S. E. with
3 notches on N. & S. edges,
Dig pits 18x18x12 ^{ins} in N. E.
and S. E. Secs. 5 ¹/₂ ft dist.

J. H. R. 2 E.

and raised a mound of earth
2 ft high $4\frac{1}{2}$ ft base around
post.

Land level

Soil 2nd rate, sandy loam.

No timber

Dense undergrowth 80.00 Chs.

North bet. Secs. 13 & 18

Va. $13^{\circ} 9' 8''$.

Over level land

7.40 a point 3.46 Chs. W. of Secs.
Cor. set by Deputy Powers

25.75 Road from Phoenix to Frog Tanks
leaves N. 25° W.

40.00 Set stone $15 \times 8 \times 7$ ^{ins} 10 ^{ins} in
the ground for $\frac{1}{4}$ Sec. Cor. Mk'd.
 $\frac{1}{4}$ on W. face. Dig pits $18 \times 18 \times 12$ ^{ins}

West Boundary of

- 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 alongside.
- 47.40 A point 3.19 chs. W. of $\frac{1}{4}$ sec.
Cor. set by Deputy Powers.
- 53.70 Granite ridge 80 ft high bears
 $S. 85^{\circ} W.$ from Int. on E.
- 80.00 Set Stone $18 \times 12 \times 10$ ins 12 ins in the
ground for cor. to Secs. 7, 12, 13,
18, Wkd. with 4 notches on S,
and 2 notches on N. edges.
Dug pits $18 \times 18 \times 12$ ins in N. E. and
S. E. Secs. $5\frac{1}{2}$ ft dist. and
raised a mound of earth 2 ft
high $4\frac{1}{2}$ ft base alongside,
in dense brush.

Land slopes gently to S. W.

Soil 2nd rate

No timber

T. 4 N., R. 2 E.

Dense undergrowth 80,00 Chs.

North bet. Secs. 7 & 12

Na. $13^{\circ} 9' 8''$.

In dense brush

7.45 - A point 3.45 Chs. W. of Sec. Cor.

Set by Deputy Powers

4600 Set a stone $16 \times 10 \times 8$ ins 11 ins in

the ground for $\frac{1}{4}$ Sec. Cor. Inkd.

$\frac{1}{4}$ on W. face, Dug 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 alongside.

47.50 A point 3.46 Chs. W. of $\frac{1}{4}$ Sec. Cor.

Set by Deputy Powers.

80.00 Set a stone $14 \times 10 \times 8$ ins 10 ins in

the ground for Cor. to Secs. 1, 6, 7, 12

Inkd. with 5 notches on S. and 1

West Boundary of
 notch on N. edges, Dug pits 18x
 18x 12^{ins} in N. E. and S. E. Secs.
 5 1/2 ft dirt. and raised a
 mound of earth 2 ft high 4 1/2
 ft base alongside.

Land slopes to S. W.

Soil 2nd rate

No timber

Dense undergrowth 80.00 Chs.

North bet. Secs. 1 and 6

Na. 13° 9' E.

Ascend over broken ground

7.40 A point - 3.35 - Chs. W. of Sec.
 Cor. Set by Deputy Powers.

40.00 Set post 3 ft long 3 ins. sq.
 with Mk'd. Stone 12^{ins} in the
 ground for 1/4 Sec. Cor. Mk'd.

J. 4 N. R. 2 E.

$\frac{1}{4}$ S. on W. face. Dug pits 18x18
x 12^{ins} N. & S. of post $5\frac{1}{2}$ ft
dist. and raised a mound of
earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base
around post

47.40 A point 3.40 Chs. W. of $\frac{1}{4}$ Sec. Cor. set
by Deputy Powers.

54.10 A dry wash, course S. W.

55.80 A dry wash, course S. W.

65.10 A dry wash, course S. W.

72.50 A dry wash, course S. 80° W.

78.53 Intersect 1st Standard Parallel
North 32 Chs East of Standard
Cor. to Sp. 5th R. 1 & 2 E. which
is a stone about 10x8 above
ground whol. with 6 notches on
E. W. and N. faces, with remains
of mound, and pits on E. W. & N.
sides.

West Boundary of T. 4 N. R. 2 E.

I set a stone $16 \times 11 \times 6$ ins 11 ins
 in the ground for closing
 corner W Sp. 4 N. R. 2 E.
 Inkd. with 6 notches on E, W, &
 S. faces, and C.C. Dug pits
 $24 \times 18 \times 12$ ins crosswise on
 each line S. E & W. of stone
 6 ft dist; and raised a
 mound of earth $2\frac{1}{2}$ ft high
 5 ft base alongside.

Land broken by gulches
 Soil 3rd rate, sandy & stony
 No timber

Dense undergrowth 78.53 chs.

Dec. 29, 1893.

Note From my closing cor. east to closing cor. set by Deputy Powers — a stone mtd. C C with 6 notches on E. W. & S. faces, is 3.40 Chs.

There is also a small stake set in mound of stones on Standard Parallel about 3.00 Chs. east (distance not measured) apparently set to mark a point of intersection of Standard Parallel. No marks on stake.

East Boundary J. H. N.

Survey commenced
Dec. 30, 1893

Previous to commencing this survey I took an observation on Polaris at its Western elongation at 12^h 19' a.m. Dec. 30th at my camp 2 miles North of S.W. Cor. of Tp. 3 N. R. 3 E. and drove a picket on the line thus determined at 3.50 Chs. distance

At 7 a.m. Dec. 30th I find the magnetic bearing of the line established last night to be N. 15° 11' W. and the variation of needle N. 15° 11' E.

R. 2 E.

BOOK 1267

Subtracting azimuth of
Polaris - $1^{\circ}31'$ from the magnetic
bearing, the difference is the
true va. of the needle and is
 $13^{\circ}40'E$. As this point is but
4 miles S. of my point of
beginning of survey, I take
this ($13^{\circ}40'$) as the variation.

From the Cor. to Tps. 3 & 4
N. R. 2 & 3 East as reestab-
-lished by me, I run

North Sect. Secs. 31 & 36

Va. $13^{\circ}40'E$.

Corner level corner

40.00 Set a stone $15 \times 10 \times 5$ ^{ins}
 10 ^{ins} in the ground for $\frac{1}{4}$ Sec.
Cor. Mkd. $\frac{1}{4}$ on N. face,

East Boundary of
 dug 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
 alongside.

80.00 Set a Stone $14 \times 9 \times 8$ ^{ins}
 10 ^{ins} in the ground for Cor.
 to Secs. 25, 30, 31, 36, inked
 with 1 notch on S, and 5
 notches on N. edges. Dug
 pits $18 \times 18 \times 12$ ^{ins}. in each
 Sec. $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth
 2 ft high $4\frac{1}{2}$ ft base
 alongside.

Land level

Soil 1st rate

No timber

Bush whole distance.

J. H. R., R. 2 E.

North lot, Secs. 25 & 30

Na. $13^{\circ}40'E$.

Over level land

- 5:00 Enter dense brush
- 4:00 Set a stone $12 \times 8 \times 7$ ins 8 ins in the ground for $\frac{1}{4}$ sec. Cor. Mk'd. $\frac{1}{4}$ on N. face, dug 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 alongside
- 8:00 Set a stone $13 \times 8 \times 3$ ins 8 ins in the ground for cor. to Secs. 19, 24, 25, 30, mk'd. with 2 notches on S. and 4 notches on N. edges, Dug pits $18 \times 18 \times 12$ ins in each Sec. $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft high $4\frac{1}{2}$ ft. base alongside.

45-

East Boundary of

Land level

Soil 1st rate

no timber

Brush whole distance
and dense undergrowth
75.00 Chs.

North bet. Secs. 19 & 24

Na. $13^{\circ}40'E$.

Over level land

2.00 Leave dense brush

40.00 Set a stone $14 \times 8 \times 4$ ^{ins} _{ins} in the ground for $\frac{1}{4}$ Sec. Cor. Mkd. $\frac{1}{4}$ on W. face, dug pits $18 \times 18 \times 12$ ^{ins} _{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 alongside.

J. H. R. 2 E.

80.00 Set a stone $15 \times 9 \times 6$ ^{ins} $\underline{10}$ ^{ins}
 in the ground for Cor. to Secs.
 13, 18, 19, 24, wk'd. with 3 notches
 on N. & S. edges, dig pits $18 \times 18 \times$
 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.
 and raised a mound of earth
 2 ft high $4\frac{1}{2}$ ft base alongside.

Level land

Soil 1st rate

No timber.

Brush whole distance.

Dense undergrowth 2, or ch.

North bet. Secs. 13 & 18

Va. $13^{\circ}40'8$.

Own level land

40.00 Set a stone $18 \times 7 \times 5$ ^{ins} $\underline{12}$ ^{ins}
 in the ground for $\frac{1}{4}$ sec. Cor.

East Boundary of

Mkd. $\frac{1}{4}$ on W. face, dug 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 alongside.

80.00 Set a stone $19 \times 10 \times 7$ ^{ins} 14 ^{lbs}
 in the ground for cor. to Secs.
 7, 12, 13, 18, mkd. with 4 notches
 on S. and 2 notches on N.
 edges, Dug pits $18 \times 18 \times 12$ ^{ins}
 in each Sec. $5\frac{1}{2}$ ft dist. and
 raised a mound of earth 2 ft
 high $4\frac{1}{2}$ ft base alongside.

Land level

Soil 1st rate

No timber

Brush whole distance.

J. H. R. 2 Co.

North lect. Secs. 7 & 12

Na. $13^{\circ}40'$ E.

Ascend gradually

8.00 Enter dense brush

40.00 Set a stone $14 \times 10 \times 6$ ^{ins} 10 ^{ins} in
the ground for $\frac{1}{4}$ Sec. Cor. Mked.
 $\frac{1}{4}$ on W. face, Dig pits 18×18
 $\times 12$ ^{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 alongside.

80.00 Deposited a marked stone 12 ^{ins}
in the ground for cor. to Secs. 1
6, 7, 12, Dig pits $18 \times 18 \times 12$ ^{ins}
in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth 2 ft.
high $4\frac{1}{2}$ ft. base over it. In
S. E. pit - drove a stake ^{2 ft. long} 2 ^{ins}
sq. 12 ins. in the ground Mked.

East Boundary of

T. 4 N. S. 6 on N. E.

R. 2 E. S. 7 on S. E.

S. 12 on S. W. end

S. 1 on N. W. faces. with
5 notches on S. and 1 notch
on N. edges.

Land ascends slightly

Soil 1st and 2nd rate

No timber

Brush whole distance and

Dense undergrowth 72.00 Chs.

North bet. Secs. 1 & 6.

(Va. 13° 40' E.

Our land slightly ascending.

40.00

Deposited a marked stake
12 ins. in the ground for $\frac{1}{4}$ sec.
cor. dug pits 18 x 18 x 12^{ins}

J. H. R. R. 2 E.

N. & S. of Cor. $5\frac{1}{2}$ 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 $2\frac{1}{2}$ ins square $12\frac{1}{2}$ ins in the ground, mkd. $\frac{1}{4}$ S on W. face.

45.00 Leave dense brush

80.00 Set a temporary closing cor. and sought long and carefully for the Standard Cor. but could find no trace of it. described in the notes of the old survey as "a granite stone cor."

After reestablishing the 1st Standard Parallel North through R. 2 E. I closed on the Standard Parallel at

71.50 Set a stone $15 \times 10 \times 7\frac{1}{2}$ ins $10\frac{1}{2}$ ins in the ground for closing Cor.

East Boundary of

to Tp. 4 N. R. 2 & 3 E.

Marked with 6 notches on
E. W. and S. faces and C.C.
on S. face. Dig pits 24 x 18
x 12^{ins} crosswise on each
line E. W. & S. 6 ft. dist. and
raised a mound of earth 2 1/2 ft
high 5 ft base along side.

Land level

Soil 2nd rate

Dec. 30, 1893

Note From my closing ^{cor} east to
Tp. Standard Cor. is 4.40 Chs.

J. H. R. 2 E.

Latitudes, Departures and Closing errors.

Lines designa- ted as	True bearing	Dist.	Latitude		Departure	
			N.	S.	E.	W.
W. Boundary	North	478.53	478.53			
N. Boundary	East	475.54			475.54	
E. Boundary	South	471.50		471.50		
S. Boundary	S. 89° 5' W.	475.79		7.61		475.70
Convergence		49			49	
			478.53	479.11	476.03	475.70
				<u>478.53</u>	<u>475.70</u>	
			Errors = 0.58		000.33 = Error	

E. P. T. 4 N. R. 2 E.

General Description

This township is generally level, good soil, and is thickly covered with brush growing from 3 to 10 ft high.

A group of mountains from 300 to 1200 feet above the plain is found in the central and n. w. parts, composed of black, volcanic rock. The general level of the plain, by my 5-inch barometer is 1900 feet above sea level.

Saw no indications of gold, silver or other metals. With irrigation will produce heavy crops.

James H. Martineau
U. S. Deputy Surveyor.

U. S. Surveyor-General's Office,

TUCSON, A. T. *Jan'y 28th 1895.*

The foregoing Field Notes of the Surveys of
Exterior Boundaries of
Tp: 3 North R 3 East
Tp: 4 North R 2 East
of the Gila and Salt River Meridian
in Arizona - executed by
James H. Martineau
U. S. Deputy Surveyor, under his contract dated
June 21st 1893
having been critically examined, the necessary correc-
tions and explanations made, the said Field Notes and
the surveys they describe are hereby approved.

Geo. H. Manning
U. S. Surveyor-General
for the Territory of Arizona.