

Recd Oct. 22, 1890. No 1.

Platted. Copied. Rd.

Sent to Genl S. O. Dec 19, 1890

BOOK 1624

1624

Approved by Comr

General Land Office

1624 Feb 20, 1891.

~~4-671~~

BOOK 1624

FIELD NOTES

GENERAL LAND OFFICE

Trac. South. East.

and North Exterior

Lines. Trac 1/2. S. S. R 21. W

Contract. No 15.

James H Martineau

Barney. Sept 18/25 1890

BOOK 1624

1624

(4-674.)

Township 8 S. R. 21 W.

32	33	35	37	39	41	
6	5	4	3	2	1	27
			17	19	23	
7	8	9	15	10	11	12
						26
18	17	16	14	15	14	13
19	20	21	12	22	23	24
30	29	28	11	27	26	25
31	32	33	9	34	35	36
3	5	7				

6-389

Preliminary Oaths of Assistants.

We Joseph R. Ochoa
 and Joseph Hermingar
 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 accord-
 ance with instructions given us in the survey of the ^{and subdivisions} exterior
 fractional township & South
 Range 21 West of the Giles and
 Salt River Meridian

Territory of Arizona.

Joseph R. Ochoa Chainman.
Joe Hermingar Chainman.

Subscribed and sworn to before me, this 19th
 day of September 1890

We Francisco Amavisca and
Antonio Contreras

do solemnly swear that we will well and truly perform the
duties of Assessor & flagmen

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 Fractional Township
S South, Range 21 West of
the Gila & Salt River
Meridian

Territory of Arizona.

Fran^{co} Amavisca
Antonio Contreras

Subscribed and sworn to before me this 19th

day of September 1890

BOOK 1624

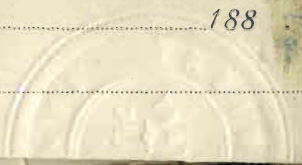
BOOK 1624

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

Sworn to and subscribed before me this
..... day of 188

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

Sworn to and subscribed before me this
..... day of 188



Field Notes

of the survey of the fractional
South, East and North
Exterior Lines

of a Fractional
Township 8 S. Range 21 W.
of the Gila & Salt River
Meridian

Territory of Arizona
as surveyed by

James H. Martineau

U. S. Dep. Surv^r

under his contract, ^{No 15.} dated
June 20. 1890.

Survey commenced Sept. 18. 1890
Survey completed Sept. 25th 1890

10
 Exteriors of Townships 8

Survey commenced Sept. 18
 1890 with a Young & Sons transit
 with solar attachment

I proceeded to the established
 Corner to Townships 8 & 9 South
 Ranges 21 & 22 West, which I
 found in place, as follows:—
 A mound 6 inches high of earth
 and a stake 2 inches square
 driven from it about 5 ft S. E.
 marked 6 notches on each edge,
 other marks illegible. The
 pits formerly dug were filled
 by drifting sand, and the
 former mound around post
 blown away in the same
 manner.

→ The line north along this

South, Range 21 West

west boundary line being plainly visible, owing to the land being cleared of brush to the line, I set my transit over the old corner and find that by my instrument the bearing is $n. 73^{\circ} 12' E.$

I chained one mile to north along the old boundary and found original stakes still standing. I also chained same distance west, but could find no posts, they having been removed by some party unknown.

At 7.30 P.M. I took an observation on Polaris in Lat. $32^{\circ} 45' N.$ and Long $114^{\circ} 32' W.$ by my computation, and find

Extremities of Twp. 8. South

North end of needle $11^{\circ} 41' E$

Azimuth by table $1^{\circ} 31'$

The sum is the variation $13^{\circ} 12' E$

Sept. 18, 1890

At 8 a. m. Sept. 19th 1890

I find the variation N. $13^{\circ} 15' E$.

and by correction by table p. 55
of Manual it is N. $13^{\circ} 12' E$,
the mean variation.

I begin at the corner to Twp.
8 & 9 S. Ranges 21 & 22 West
which is a stake 2ⁱⁿ square
about 5 ft S. E. of mound
marked with 6 notches on
each edge, other marks
illegible, and thence I run

Range 21 West

East on a true line bet. Secs.
31 and 36,

Va. $13^{\circ} 12' E.$

Over level land

39.02 Set a redwood post with
charred end 4 ft long $4 \frac{1}{2}$ ins sq,
 $12 \frac{1}{2}$ ins in the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S on N. face, clay
pits: $18 \times 18 \times 12 \frac{1}{2}$ ins. E & W. of post
 $5 \frac{1}{2}$ ft dist. and raised mound
of earth $1 \frac{1}{2}$ ft high $3 \frac{1}{2}$ ft base
around post

55.50 Begin to ascend about 20 ft.

49.50 Top of ascent to top of level mesa.

79.02 Set a charred redwood post 4
ft long 4 ins. square $12 \frac{1}{2}$ ins in the
ground for cor. to Secs. 31, 32, 5
and 6, marked T 8 S. S. 32 on N. E
T 9 S R. 21 W. S. 5 on S. E.

Exteriors of T. 8 South

T. 9 S. S. 6 on S. W
 and R. 22 W. S. 31 on N. W. faces
 with one notch on W. & 5 notches
 on E. edges. Dug pits $18 \times 18 \times 12$ in
 in each section ^{5 1/2 ft dist,} and raised
 mound of earth 2 ft high and
 $4 1/2$ ft base around posts.

Land level

Soil 3rd rate, sandy

No timber.

East on true line bet. ^{ells} 32 & 5

Na. $13^{\circ} 12' E.$

over level plain

4000 Set charred redwood post 4 ft
 long 4 in. sq. 12 in in ground for
 $1/4$ sec. cor. 7 in kd. $1/4$ S on N. face
 dug pits $18 \times 18 \times 12$ in E. & W. of
 post $5 1/2$ ft dist, and raised.

Range 31 West

mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft
base around post

8400 Set charred redwood post 4 ft
long $4\frac{1}{2}$ in square $12\frac{1}{2}$ in in ground for
Cor. to Secs. 32, 33, 4 & 5, marked

T & S. R. 21 W. S. 33 on N. E.

T 9 S' S. 4 on S. E.

S. 5 on S. W

and S. 32 on N. W. faces.

with 2 notches on W. and four
notches on E. edges. Dig pits
 $18 \times 18 \times 12\frac{1}{2}$ in each sec. $5\frac{1}{2}$ ft
dist. and raised mound of
earth 2 ft high $4\frac{1}{2}$ ft base
around post.

Land level

Soil 3^d rate. Sandy

No timber

Exteriors of T_p. & S.

East on true line bet. Secs.
33 and 4

Na. $13^{\circ}12' E$,

Over level land

40.00 Set Charred redwood post 4 ft
long $4^{\frac{1}{2}}$ square $12^{\frac{1}{2}}$ in ground
for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ S. on
N. face. Dig pits $18 \times 18 \times 12^{\frac{1}{2}}$ in E.
& W. of post $5\frac{1}{2}$ ft dist. and
raised mound of earth $1\frac{1}{2}$ ft
high $3\frac{1}{2}$ ft base around post.

42.20 Begin to descend from mesa
into broad wash, runs N. W.

46.50 foot of descent, cross wash

48.00 Enter thick brush, mesquite
and willows.

50.00 Bed of wash, 1 ft deep, runs N. W.

80.00 Set Charred redwood post
4 ft long $4^{\frac{1}{2}}$ sq. $12^{\frac{1}{2}}$ in ground

Range 21 West

for cor. to secs. 33, 34, 3 & 4
marked T 8 S. S. 34 on N. E.

T 9 S. R. 21 W. S. 3 on S. E.

S. 4 on S. W.

and S. 33 on N. W. faces,
with 3 notches on east & west edges.

at east side of main wash.

Dug pits $18 \times 18 \times 12$ in each

Sec. $5\frac{1}{2}$ ft dist. and raised

mound of stone 2 ft high $4\frac{1}{2}$

ft. base around post.

An ironwood 15 in diam bears

S. 44° E. 138 lks dist. marked

T 9 S. R. 21 W. S. 3. B. T

An ironwood 5 in diam. bears

N. $19^\circ 40'$ E. 51 lks dist. marked

T 8 S. S. 34 B. T. No other trees.

Land 75.50 ^{cks} level 4.50 ^{cks} Sloping

Soil 3rd rate, Sandy

No timber, except a few scattered

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BOOK 1624

Exteriors Sp. 8 South

trees. Thick brush 38. or chs.

At this point I examined eastward, and finding the line must cross a steep & rocky range of mountains 15 or ft high in order to reach the east boundary, and therefore impracticable, I conform to my instructions and discontinue the south boundary here, and run north along West base of the Gila Mountains.

400 From sec. to secs. 33. 34. 34 4

I run

North on true line between
secs. 33 & 34

Ca. $13^{\circ} 12' E.$

Range 21 West

- Land nearly level. In thick brush of mesquite & thorn.
- 3.40 Cross small wash, 4 ft deep, 20 ft wide, runs W.
- 28.30 Left bank of wash runs N. W.
- 31.50 Right bank of same wash
- 32.00 Leave brush. & ascend mesa.
- 35.00 Top of mesa 40 ft high.
- 39.50 Edge of small wash 10 ft deep runs N. W.
- 40.00 Set charred redwood post 4 ft long $4\frac{1}{2}$ in square $12\frac{1}{2}$ in in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on W. face. Dig pits $18 \times 18 \times 12\frac{1}{2}$ in N. & S. of post $5\frac{1}{2}$ ft dist. and raised mound of stone $1\frac{1}{2}$ ft ^{high} ~~base~~ 2 ft ^{base} ~~high~~ around post. In small hollow, br. N. W.
- 40.50 Top of ascent, over level land,

Exteriors of Sp. 8 South

80.00 Set Stone $14 \times 13 \times 12^{\text{in}}$ 10^{in} in
ground for cor. to Secs. 27, 28, 33
& 34 marked 1 notch on S. and
3 notches on East edges, and
raised mound of Stone $1\frac{1}{2}$ ft
high 2 ft base alongside. Pits
impracticable. Cor. in small rains.

Land high mesa & foothills
Soil 5th rate, sandy & stony
No timber, Brush 32.00 Chs.

North on true line between
Secs. 27 & 28

Na. $13^{\circ} 12' E$.

400. over high foothills, slope W.
with washes draining west.

40.00 Set sandstone $18 \times 12 \times 6^{\text{in}}$
 12^{in} in ground for $\frac{1}{4}$ sec. cor.
marked $\frac{1}{4}$ on W. face, and

Range 21 West.

raised mound of stone ~~18x18~~
~~xx~~ $1\frac{1}{2}$ ft high 2 ft base

along side. Pits impracticable.

55.00
 80.00

Bed of wash, runs N.W. Hollow 20 ft deep

Set Sandstone $17 \times 14 \times 20$ in

12 in in ground for cor. to sec.

21, 22, 27 & 28, marked with
 2 notches on S. and 3 notches

on E. edges, and raised a

mound of stone $1\frac{1}{2}$ ft high
 2 ft base along side. Pits

impracticable.

Land last 40. or chs. known
~~taungus~~

Soil 5th rate - Stony & rocky

No timber.

North on true line between

Secs. 21 & 22

Na. $13^{\circ} 12'$ E.

over high foothills & spur of
 mountains.

Exteriors of Sp. & South

4000 Set Stone $15 \times 12 \times 8$ in 10 in in the ground for $\frac{1}{4}$ sec. Cor. Marked $\frac{1}{4}$ on W. face, and raised mound of Stone $1\frac{1}{2}$ ft high 2 ft base alongside. Pits impracticable.

8000 Set granite Stone $17 \times 14 \times 10$ in 12 in in ground for cor. to sec. 15, 16, 21 & 22, marked 3 notches on S. and 3 notches on E. edges, and raised mound of Stone $1\frac{1}{2}$ ft high 2 ft base along side. Pits impracticable.

4000

Land mountainous & rough,

Soil very poor - rocky

No timber.

Friday Sept. 19. 1890

Range 21 West

North on true line bet. sees.
15 and 16

Na. $13^{\circ} 12' E.$

I find my needle is not
locally affected in these hills,
but see indications of gold,
Over high broken foothills
draining to N. W.

4000 Set Sandstone $19 \times 12 \times 9$ in
 13 in ground for ^{$\frac{1}{4}$ see} cor. ~~marked~~
 $\frac{1}{4}$ on W. face, and raised
mound of Stone $1\frac{1}{2}$ ft ^{high} ~~base~~
2 ft ^{base} high, alongside.

8000 Set Stone $17 \times 12 \times 9$ in 12 in
in the ground for cor. to sees.
9, 10, 15 & 16, marked with 4
notches on S. and 3 notches
on E. edges, and raised
mound of Stone 2 ft high $4\frac{1}{2}$

15

Exteriors of Sp. S South
 feet base alongside. Pits
 impracticable.

Land Mountainous so. or chs.

Soil 5th rate. Rocky & Stony.

No timber.

Indications of gold in washes.

North on true line bet,

Secs. 9. & 10

Va. 13° 12' 8.

Over high broken foothills,
 with washes which drain N. W.

4000 Det Sandstone 17 x 12 x 8 in 12
 ins. in the ground for 1/4 sec.

4000 Cor. Marked 1/4 on N. face, &
 raised mound of stones 1 1/2 ft
 high 2 ft base alongside. Pits
 impracticable. Descend

34.50 foot of hill, and enter level

Range 21 West

bottom of the Gila River
 19.10 Southern Pacific R. R. track,
 bears S. $24^{\circ} 20'$ W.

20.00 Set sandstone $16 \times 12 \times 10$ in 11 in
 the ground for cor. to secs. 3, 4,
 9 & 10, marked with 5 notches
 on S. and 3 notches on E. edges
 and raised mound of stone
 $1\frac{1}{2}$ ft high 2 ft base along side,
 pits impracticable.

This cor. is 15 cks above foot
 of small mound 30 ft high
 200 ft long, bears N. E & S. W
 and faces S. E.

Land mountainous 5400 cks
 2600 cks. level

Soil on level 3^d rate. Sandy
 no timber.

Indications of placer gold.

17

Exteriors of Sp. & Souths

At the cor. to Secs. 9, 10, 3 & 4 I find I can pass the north end of the Gila Mountain range on an easterly line, I therefore from this corner run

East on a true line between Secs. 3 & 10

Na. $13^{\circ} 12' E.$

1.04 Over high broken hills slope N. To Southern Pacific R. R. track bears N. E. & S. W. on curve.

6.00 foot of steep ridge, bears N. & S. ascends

10.60 Top of same ridge, Thence over ridges and gulches to

40.00 Set sandstone $14 \times 12 \times 12$ in the ground for $\frac{1}{4}$ sec cor. marked $\frac{1}{4}$ on N. face,

400

Range 21 West.

and raised mound of stone
 1 1/2 ft high 2 ft base along side,
 Pits impracticable.

45.00 Begin to descend from hills.

62.00 Descend to Gila river bottoms.

72.50 Cross Southern Pacific R.R.

track bears N.W. & S.E.,
 Road to Gila city bro. N.W. & S.E.

77.80 Point on low ridge near Gila

River 30 ft high and due north
 of Manuel Bedoy house on
 small hill.

80.00 The left bank of Gila river
 runs N.W. Set a charred red-
 wood post 4 ft long, 4th sep,

12^{ins} in the ground for cor. to

Acres, 2.3.10 x 11 marked

T 8 S. S. 2 on N. E.

R. 21 W. S. 11 on S. E.

S. 10 on S. W.

3
 19
 Exteriors of Tps. 8 South

and 43 on N. W. faces,
 with 5 notches on S. and 2
 notches on E. edges. Dug
 pits $18 \times 18 \times 12$ in Sec. 2 &
 11 (other two sections imprac-
 -ticable for rock) and raised
 mound of stone 2 ft high $4\frac{1}{2}$
 ft base around post.

As this is also a meander
 cor. I mark it M.C. on N.
 side.

Land mountainous 62.0 chs

Soil in bottoms 2^o rate

No timber.

400 This cor. is in the west edge
 of Gila City.

East on a true line between
 Secs. 2 & 11

Range 21 West

Na. $13^{\circ}12'E$.

The high water in the Gila river having flooded the bottom land east of this point, I am obliged to run on an offset line to avoid it. I therefore from this corner run South, through Gila city 3.40^{cho}_n to railroad, bears E & W. 8.00^{cho}_n a point on hill from which I run

East on offset line 3.00^{cho}_n bottom of hill 37.00^{cho}_n cross railroad, bears $71^{\circ}E$. 39.00^{cho}_n to a point from which I run north, and at 2.46^{cho}_n cross railroad, bears $71^{\circ}E$, and enter dense brush. 8.00^{cho}_n a point on true line

Exteriors of Sp. 8 South

due east of cor. to sec. 2. 3
10 & 11 from which I run
East to

40.00 Set a charred redwood post
4 ft long 4 ^{line} square 12 ins. in the
ground for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ S. on N. face. Dig pits
18 x 18 x 12 ⁱⁿ E. & W. of post
5 $\frac{1}{2}$ ft dist. and raised
mound of earth $\frac{1}{2}$ ft high
3 $\frac{1}{2}$ ft base around post
in dense brush of arrowwood
and willow.

400 46.40 Cross the Southern Pacific
R.R. across N.E. & S.W. and
leave brush. Ascend high
hill, across N. & S.

47.00 Top of ridge 70 ft high
55.00 Major road to the N.E. & S.W.
69.00 Begin to descend into a

Range 21 West

deep wash, bears. North

74.00 Bottom of wash 70 ft deep,
drains N. Some placer claims
in this wash, also near
Lisle city.

77.00 Cross wash, and ascend.

80.00 Set sandstone $18 \times 14 \times 11$ in
 12 in the ground, for Cor. to
Sec. 1, 2, 11×12 , marked
with 5 notches on S. and 1
notch on E. edges. Dug pits
 $18 \times 18 \times 12$ in each section
 $5\frac{1}{2}$ ft dist. and raised
mound of stone alongside.

Land rough & hilly

Soil 4th rate

No timber.

Indications of gold all this
mile.

Exteriors Sp. 8. South

East bet. Secs. 1 & 12

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

Over hilly and broken land

9.50 Begin to descend into valley.

35.00 Enter Gila Valley, and enter thick brush.

40.00 Set a granite stone $17 \times 10 \times 8$ ins,
 11 ins in the ground for $\frac{1}{4}$ sec, cor.
 marked $\frac{1}{4}$ on N. face, dug pits
 $18 \times 18 \times 12$ ins E. & W. of post $5\frac{1}{2}$
 ft. dist. and raised mound of
 earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft base
 alongside.

60.00 Cross Southern Pacific R.R. bears N.W. & S.E.

71.00 Left bank of Gila River, runs
 N.W. Bank of river is now about
 10 ft above surface of river.

Set a charred redwood post
 4 ft. long 4 in square 12 ins. in
 the ground for witness and

Range 21 West

24

meander cov., marked M.C. on E. side, T & S. S. 12 on S. R. 21 W, S. 1 on N. and W. C. on W. side. Dig pit 3 ft sq. 12" deep 8 lks from West side and raised mound of earth 2 ft high and $4\frac{1}{2}$ ft base around post.

To reach east line of township I run 6 feet south from a point on chain west of post, from which I run

South 26.00 chs. thence

East 10.00 chs. to a point on

East boundary of Township

where I set a temporary point,

and from thence run

North on true line bet. Secs. 12

and 7, and at

64.70^{chs} cross railroad track,

Exteriors of Tps. 8 South

bears N. 80° W. and at
 69.00^{chs} Enter dense brush and
 slough on bank of Gila river, at
 78.00^{chs} reach left bank of Gila
 river, runs westerly.

78.00

Set charred redwood post 4 ft
 long $4\frac{1}{2}$ in sq. $12\frac{1}{2}$ in in the ground
 for witness and meander cor. to
 Dec. 1. 12. 6 & 7, marked M.C.
 on N. side, T 8 S. S. 7 on E,
 R. 21 W. S. 12 on W.

and W.C. on S. side. Dig
 pit - 3 ft sq. 1 ft deep 8 lbs S. of
 Cor. and raised mound of earth
 2 ft high $4\frac{1}{2}$ ft base around
 post. (see note in margin)

As the river is unfordable and
 we have no means to cross it, I
 now measure from meander cor.

Land hilly 35.00 chs.
 Soil on level 29 rods -
 no timber

400

Range No. 21

just established on east boundary
South on true line bet. secs.

12 & 7

Va. $13^{\circ} 12' E.$

- 2.00 over level ground
 11.00 Leave thick brush
 15.30 Cross railroad, brs. easterly
 4.00 Set charred redwood post 4 ft
 long 4 ⁱⁿ square, 12 ⁱⁿ in the
 ground for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ S. on N. side. Dig pits N. &
 S. of post 18 x 18 x 12 ⁱⁿ 5 $\frac{1}{2}$ ft
 dist. and raised mound of
 earth 1 $\frac{1}{2}$ ft high 3 $\frac{1}{2}$ ft base
 around post.

As this line will strike the
 precipitous face of the mountain
 in less than 20.00 ^{chs}, and therefore
 beyond the limits for establishing

Exteriors of Tp. 8 South

a witness cor. I discontinued
the line here.

Sat. Sept. 20, 1890

north on true line bet. Secs. 1 & 6

wa. $13^{\circ} 12' E$

across the river, & in dense brush.

To obtain distance across the
river at the meander post set
on east boundary of Township
I find a flag across and set
a meander post ^{with mound of earth} on the right
bank of Gila river on a true line
north from the meander post
first established and find
the angle between the opposite
meander post and that which
stands on the east & west line
between Secs. 1 & 12, 10.20 chs.
dist. is $75^{\circ} 00'$ and the angle
between the north and south

Range 21 West

meander posts on the east bound-
-dary is $33^{\circ} 24'$; consequently
the remaining angle opposite
the base line of 10.20 chs. is $71^{\circ} 36'$
therefore, by table of sines:-

$$\begin{array}{ccc} \sin \text{ of } & \sin \text{ of } & \\ 71^{\circ} 36' & 33^{\circ} 24' & \text{chs.} \\ .949 & : .550 & :: 10.20 : 5.91 \text{ Chs.} \end{array}$$

= distance between meander posts.

As the cor. would come in the
river 2.00 chs. from Left bank
the distance of the meander cor.,
on right bank is

3.91 To meander cor. on Right bank

4.00 Enter dense brush

4.00 Having lost some of our tools
in crossing the swollen stream
I could set no more posts, but
had to make mound corners. I
deposited a piece of charred stake

Exteriors of Tps. 8 South

12^{ins} in the ground for $\frac{1}{4}$ sec. Cor., dug pits 18 x 18 x 12^{ins} N. & S. of corner $5\frac{1}{2}$ ft dist. and raised a mound of earth $1\frac{1}{2}$ ft high $3\frac{1}{2}$ ft. base over it. In N. pit drove a stake 2 ft long 2 ins. sq. 12 ins. in the ground marked $\frac{1}{4}$ S. on N. face

8000 Deposited a marked stone 12 ins. in the ground for Cor. to Tps. 7 & 8 S. Ranges 20 & 21 W. dug pits 24 x 18 x 12^{ins} lengthwise on each line, N. S. E. & W. of post 6 ft dist. and raised a mound of earth $2\frac{1}{2}$ ft high 6 ft base around post marked

4000 Dug pits 24 x 18 x 12^{ins} lengthwise on each line, N. S. E. & W. of post 6 ft dist. and raised a

Range 21 West

mound of earth $2\frac{1}{2}$ ft high 5 ft base over it. In N. pit drove a stake $2\frac{1}{2}$ square 2 ft long 12 ins. in the ground, marked

T 7 S. S. 31 on N. E.

R. 20 W. S. 6 on S. E.

T 8 S. S. 1 on S. W and

R. 21 W. S. 36 on N. W. faces with 6 notches on each edge.

Land level.

Soil 1st rate

No timber, but heavy brush ^{ch.}
Mon. Sept. 22. 1890

From Cor. to Tps. 7 & 8 S. R's 20 & 21 W. I run a random line west between Tps. 7 & 8 South R. 21 W. setting temporary corners at every 40 and 80 chains, and at

Exteriors of Sp. & S.

5 miles 79.85 Chs. intersected
 the west boundary line at 45 Chs.
 N. of Cor. to Sp. 7 & 8 S. R. 021 &
 22 W. which cor. is a stone
 marked with 6 notches on all four
 edges, with a small ind. of stone
 along side of cor. partly thrown
 down

Fris. Sept. 23^o 1890

The extreme falling to north
 is due, I think, to the shorter
 chaining as found by me in
 retracing the old line in the
 commencement, which was
 about 25 lbs per 40. or chs. &
 caused, no doubt, by the
 heavy mesquite and other
 brush which covers the land

Range 21 West

whm survey was made in
1873, but now cleared, where
I measured the line.

From the Cor. to Tps 7 & 8 South
R. 0 21 & 22 W. I therefore
run

N. $89^{\circ} 57' E$. on a true
line bet. Secs. 6 & 31

(Va. $13^{\circ} 20' E$.)

I find local attraction here.

Our mountainous land, ~~does~~
descend.

30.00 Bottom of hollow dr. S. W.

39.85 Set stone $15 \times 14 \times 12$ ^{ins} 11 ⁱⁿ

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

Marked $\frac{1}{4}$ on N. side, and

raised mound of stones $1\frac{1}{2}$
ft high 2 ft base along side.

33 Exteriors of Sp. 8 South

Pits impracticable.

79.75 Top of mountain, bears nearly
E. & W.79.85 Set volcanic stone $17 \times 14 \times 8$ in
 12 in ground for cor. to Secs. 5
6.31 & 32, marked with 1 notch
on W. & 5 notches on E. edges, &
raised a mound of stone $1\frac{1}{2}$ ft
high 2 ft base alongside.
Pits impracticable.Land high and mountainous.
Soil poor, 5th rate, stony
No timber.

Indications of Gold in washes

N. $89^{\circ} 57'$ E. on true line
bet. Secs. 5 & 32Va. $13^{\circ} 20'$ E.

Over high mountains 1500 ft high

400

Range 21 West

9,000 Begin to descend mountain

4,000 Set Sandstone $15 \times 14 \times 12$ ^{ins}
 10 ins. in the ground, for $\frac{1}{4}$ sec
 Cor. marked $\frac{1}{4}$ on N. side, and
 raised mound of Stone $1\frac{1}{2}$ ft
 high 2 ft base ^{In gulch drain S. East} _{alongside} Pits
 impracticable. Ascend

7,000 Top of sharp peak of ridge
 1,000 ft high, bears $N. 30^\circ W.$

8,000 Set Sandstone $16 \times 15 \times 11$ ^{ins} 11 in
 in ground for Cor. to sec. 4,
 5, 32, & 33, marked with 2
 notches on W. & 4 notches on E.
 edges, and raised mound of
 Stone $1\frac{1}{2}$ ft high 2 ft base
 alongside Pits impracticable.

Land mountainous

Soil poor 5th rate, Rocky
 no timber

35-

Extremities of Tp 8 South

N. $89^{\circ}57'E$. on true line

bet. Secs. 33 & 4

Va. $13^{\circ}30'E$.

Over mountains & gulches. Ascend

2.00 Top of low ridge, bear S. & descend

35.00 Foot of hills and into level.

Some old placer workings just on
N. side of line.

40.00 Set stone $16 \times 14 \times 10$ in 11 in the
ground for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ on N. side, Dug pits $18 \times 18 \times 12$
ins. E. & W. of ^{cor.} post $5\frac{1}{2}$ ft dist.
and raised mound of earth $1\frac{1}{2}$
ft high $3\frac{1}{2}$ ft base along side.

400
53.00 Leave level land here &
ascend high & steep moun-
-tain.

As it is impracticable to
chain over this part of the

Range 21 West

line I here offset south
 17.00 Chs. and run N. $89^{\circ}57'E$
 along South base of mountain
 over low foot hills. At this
 point of offset an isolated hill
 about 500 ft high and half
 a mile long, is close to offset
 line on S. side & bears S. W.

8000

As the mountain 17.00 Chs. N.
 of this point is to steep to chain
 & set the cor. in its proper
 place, I here set Stone on
 offset line for Witness Cor.

Marked W. C. on N. side and
 3 notches on E. & 3 notches on W
 edges, and raised mound of
 Stone ^{1 1/2 ft high 2 ft base} along side of its imprae-
 ticable.

Land Mountainers Co. 00 chs.

37

Exteriors of Tp. 8 S.

Level 20.00 Chs

Soil on level 2nd rate, sandy
No timber.N. $89^{\circ} 57' E.$ on tree line

bet. Secs. 3 & 34

Na. $13^{\circ} 15' E.$

Variation a little less here.

Along offset line, over low points.

40.00 A point 17.00 Chs. S. of true
point for $\frac{1}{4}$ sec. cor. I measure
North up a high hill 17.00 Chs.
and set Stone $16 \times 15 \times 10$ ins11 ins. in ground for $\frac{1}{4}$ sec. cor.4000 Marked $\frac{1}{4}$ on N. side, andraised mound of Stone $1\frac{1}{2}$ ft
high 2 ft base alongside. I

now return to offset line.

46.66 Top of low narrow ridge bet. S.
70.000 Cross deep gulch, bears S. $15\frac{1}{2}$ ft deep

Range 21 West 38

8000 Point 17.00 chs. S. of place for
 Sec. Cor. I measure up steep
 rocky hill 120 ft high 17.00
 chs. north, and set stone 18 x
 14 x 10 ^{ins} 12 ins. in ground
 for cor. to Secs. 2, 3, 34 & 35
 marked with 4 notches on W.
 and 2 notches on E. edges, &
 raised mound of stone 1 1/2 ft
 high 2 ft base alongside.
 Pits impracticable

Land mountainous

Soil poor & stony on true line

No timber.

Old placer workings all along
 on offset line, and also in
 places in the hills along true
 line. Some claims are now
 being worked by Mexicans.

Sept. 24th 1890

Exteriors of Sp. S. South

N. $89^{\circ} 57'$ E. on tree line
between Secs. 2 & 35

Na. $13^{\circ} 15'$ E.

Over hilly ground & descend

18.00 Reach foot of hills & level land.

Enter thick mesquite brush
and arrowwood and willows.

24.00 Descend 10 ft to Gila River
bottoms. Thicket almost
impenetrable.

40.00 Set Mesquite post 4 ft long
4 ins. square with charred
end, 12 ins in the ground for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on
N. face. Dig pits $18 \times 18 \times 12$
ins. E. & W. 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.

Range 21 West

8000 Set a charred redwood post
 4 ft long $4\frac{1}{2}$ ins square $12\frac{1}{2}$ ins
 in the ground for cor. to
 Sec. 1, 2, 11 & 12, marked
 T & S. S. 36 on N. E
 T & S. R. 21 W. S. 1 on S. E.
 S. 2 on S. W
 and S. 35 on N. W. faces
 with 5 notches on W. and
 1 notch on E. edges. Dig
 pits $18 \times 18 \times 12\frac{1}{2}$ ins in each
 section $5\frac{1}{2}$ ft dist. and
 raised mound of earth
 2 ft high $4\frac{1}{2}$ ft base around
 post.

Land 18.00 chs. Mountainous
 62.00 ^{chs.} thick brush
 Soil on level 1st rate
 No timber, but dense brush.

Exteriors of Tps. 8 South

N. 89° 57' East on true line
bet. Secs. 1 & 36

Var. 13° 12' E.

Variation returns to its normal
rate, being removed from hills.

Over level land & thick brush.

4000 Deposited marked Stone 12^{ins}
in the ground for $\frac{1}{4}$ Sec. Cor.
Deep pits 18 x 18 x 12^{ins} E. & W.
of Cor. 5 $\frac{1}{2}$ ft dist. and raised
mound of earth 1 $\frac{1}{2}$ ft high
3 $\frac{1}{2}$ ft base around over it.

In E. pit drove stake 2 ft
long 2^{ins} square 12 ins. in
the ground, marked $\frac{1}{4}$ S
on North face.

8000 The Cor. to Tps. 7 & 8 South
Ranges 20 & 21 W.

Range 21 West

Land level

Soil 1st rate

No timber, but dense brush
of Mesquite, Saw bean and
willow.

Thurs. Sept. 25, 1890

13 miles 1 chain 75 links of
these lines are over dense
brush or over mountains.

Total length of exterior
18^m 38.87 chs.

General Description.

The North West portion of this Township is mountainous, with peaks from 1000 to 1200 feet high above the valley, very rough and broken; with no timber but indications of gold all among them. Many old dry wash placar workings are seen, and a few are now being worked by Mexicans.

A San Francisco company own several placar claims in Sec. 3, also in sections 10 and 11, and intend in a few months to erect works for hydraulic mining.

General Description (cont^d)

The ^{South} eastern part of the Tp. is also mountainous, the Gila Mts. rising to a height of 1500 to 3000 feet above the valley. The rest of the Township is level, with good rich soil. Several men claim land and are clearing it of mesquite and other brush.

The Gila River runs through the Township from N. E. to S. West, also the Southern Pacific R.R. The Tp. should be subdivided

James H. Martineau
U. S. Deputy Surveyor
Tucson October 22, nd 1890

BOOK 1624

U. S. Surveyor-General's Office,

TUCSON, A. T., Dec 19 1890.

The foregoing Field Notes of the Surveys of
Frac. South-East and
North Exterior Lines. of Frac.
T₂. S. S - R. 21. West

Gila and Salt River Meridian

in District of Arizona executed by

James H. Martineau

U. S. Deputy Surveyor, under his contract dated

June 20, 1890. L₁₀ 157

having been critically examined, the necessary corrections and explanations made, the said Field Notes and the surveys they describe are hereby approved.

Wm. A. Johnson

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