

1589

1589

BOOK 1589

P1

F I E L D N O T E S
OF THE SURVEY OF THE
EAST BOUNDARIES OF

Ts. 6, 7, 8, 9 and 10 S., R.
31 E., Ts. 3, 4, & 5 S., Rs.
29 & 30 E., and
South Boundaries of T. 4 S.,
R. 30 E., T. 7 S., R. 31 E., and
T. 8 S., Rs. 31 and 32 E.

Gila and Salt River Base and
Meridian,

(A portion of 5th Guide East thru
Ts. 3, 4 & 5 S) ARIZONA.

By Theo. F. White, D.S., under
Contract dated Oct. 17, 1881.
Survey commenced Jan. 27, 1882.
Survey completed Feb. 24, 1882.

56 8 87 89 92

12 7 87

P. 42, R. 29 E 13 7 4 18 P. 42, R. 30 E P. 42, R. 31 E P. 42, R. 32 E

24 7 2 19

25 6 9 30

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32 5 8 31

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12 5 1 7

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1A

Preliminary Oaths of Assistants.

BOOK 1589



We, J. H. McBlure
and J. O. Ford

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 the instructions given us

in the survey of the Exterior lines of the East boundaries of Tps. 6, 7, 8, 9 & 10 S. Range 31 E. and Tps 3, 4, & 5 S. Range ²⁹ East. & S. Boundary of Tps 4 S. 20 E. & 7 S. 31 E. & S. 31 & 32 E. & S. B. Base & Meridian

J. H. McBlure
J. O. Ford
John Blaker

Sworn to and subscribed before me, this 23rd day of

January, 1882 Paul Riccker
Notary Public
County Arizona.

We, John Blake, Saul K Van Relt
Jos Schwarz

do solemnly swear that we will well and truly perform the
duties of Axeman, Flagman
and Moundman respectively
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 Exterior lines of the East boundaries, of
Tps 6, 7, 8, 9 & 10 S. Range 31 E. & Tps 3, 4 & 5 S. Range
29th East & S. Boundary of Tps 4 S. 30 E. & 7 S. 31 E.
& S. 31 & 32 E. G & S. R. Base & Meridian

John Blake Axeman
James Wansell Flagman
Jos. Schwarz Moundman

Sworn to and subscribed before me this 23rd day of
January, 1882

Paul Riccker
Notary Public Pima
County Arizona



Exterior Boundaries T. 10 S. R. 31 E.
Gila & Salt River Meridian

chain

Survey commenced January 27.
1882. with a Burts improved
Solar compass.

I begin at the Standard
cor. to Tps 10 S. R's 31 & 32 E.
which is a volcanic rock 12 x 10 x 7
ins. firmly set in the ground, &
just recently established by us,
marked S. C. with 6 notches
on N. E. & W. edges, with pits
24 x 18 x 12 ins. crosswise on each
line, N. E. & W. of stone 6 ft. dist
and mound of earth 4 ft high
alongside.

Thence I run

North, bet. Secs. 31 & 36

Var. $12^{\circ} 30' E$.

as per observation with Solar Compass

East Bdy

Section, T. 10 S. R. 31 E. continued

chains

40.00

Deposited a charred stake
12 ins. in the ground, for $\frac{1}{4}$
Sec. cor. dug pits 18 + 18 + 12
ins. 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 ins. square, 12 ins. in
the ground, marked $\frac{1}{4}$ S.
on W. face.

80.00 Set a post 4 ft. long, 4 ins. square,
with marked stone, 12 ins. in
the ground, for cor. to Secs.

25. 30. 31 & 36. marked -
T. 10 S. S. 30 on N. E.

R. 32 E. S. 31 on S. E.

R. 31 E. S. 36 on S. W. and
S. 25 on N. W. faces, with

Exterior, N. 10 S. R. 31 E. continued

Chains

5 notches on N. and 1 notch on S. edges, dug pits 18+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 around post.

Land descending N. smooth
Soil 2^d & 3^d rate
No timber.

North. bet. Secs. 25 & 30
Var. $12^{\circ}30'E$.

- \$40.00 Set volcanic rock 18+8+7 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ on N. face, and raised a mound of stone alongside. Pits impracticable.
- 50.00 Dry Wash 50 lbs wide course E.

Exterior, N. 10 S. R. 31 E. continued

chains

54.50 Ascend Bank extending E.

55.50 Top of Bank

80.00 Set volcanic rock 12+10+6 ins.

8 ins. in the ground, for cor. to
Secs. 19, 24, 25 & 30, marked
with 4 notches on N. and 2 notches
on S. edges, and raised a
mound of stone alongside,
Pits impracticable.

Land rolling & ascending N.

Soil rocky & poor.

No timber.

North bet. Secs. 19 & 24

Var. 12° 30' E.

5.00 Ascend point of Mountain
ridge,

25.00 Top 150 ft. high.

Exteriors, N. 10 S., R. 31 E. continued

chains

- 32.00 Rocky gulch 12 lks wide course
S. E. & ascend
- 40.00 Set volcanic rock $15 \times 12 \times 6$ ins.
10 ins. in the ground, for $\frac{1}{4}$ Sec
cor. marked $\frac{1}{4}$ on W. face, and
raised a mound of stone,
alongside, Pits impracticable.
- 42.00 Rocky gulch course S. E. & ascend
- 49.00 Top of high ridge 250 ft high,
course N. E.
- 60.00 Rocky gulch course N. W.
- 76.00 Dry wash 20 lks wide, course N. E.
- 80.00 Set volcanic rock $15 \times 8 \times 5$ ins.
10 ins. in the ground, for cor.
to Secs. 13. 18. 19 & 24 marked
with 3 notches on N & S. Edges, &
raised a mound of stone
alongside, Pits impracticable.
Land broken & mountainous

Exterior. N. 10 S. R. 31 E. continued

Chains.

Cross E. point of mountain
ridges, making down from the
Peloncillo Mts
Soil poor & stony
No timber.

North bet. Secs. 13 & 18
Var. 12° 30' E.

- 18.00 Top of ridge 20ft high, come N.E.
- 32.00 Foot of ridge, on N. side & leave it.
- 34.25 Dry wash 25 fms wide come N.E.
- 40.00 Set Volcanic rock 16 + 9 + 5 ins.
11 ins. in the ground, for 1/4 Sec.
cor. marked 1/4 on N. face, and
raised a mound of stone
alongside, Pits impracticable
- 44.75 Dry wash 20 fms wide come N. E.
& ascend,

Estorians T. 10 S. R. 31 E. continued

chains

North bet. Secs. 7 + 12

Var. $12^{\circ} 30' E.$

- 9.25 Dry wash 2000 wide, course N. E. + ascend
- 17.00 Ridge extending N. E.
- 27.00 Foot of ridge and leave it
- 40.00 Set a volcanic rock $18 + 8 + 8$ ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raised a mound of stone alongside, pits impracticable
- 42.90 Dry wash course N. E.
- 47.00 Leave wash
- 62.00 Dry wash course N. E.
- 65.00 Leave same & ascend high ridge course N. E.
- 80.00 Set volcanic rock $15 + 9 + 6$ ins. 10 ins. in the ground, for cor. to Secs. 1. 6. 7. + 12 marked with

Exterior N. 10 S. R. 31 E. continued

chains

1 notch on N. and 5 notches
on S. edges, and raised a
summit of stone along side
Pits impracticable
Land mountainous
Soil rocky & worthless
No timber.

Exteriors. T. 10 S. R. 21 E. continued

- 63.00 Top of ridge 250 ft. high, extending N. E.
- 76.20 Rocky gulch course N. E.
- 80.00 Set volcanic rock 14 + 8 + 6 ins. 10 ins. in the ground for cor. to Secs. 7. 12. 13 & 18. marked with 2 notches on N. & 4 notches on S. edges, and raised a mound of stone alongside, Pits impracticable. Land mountainous
Soil rocky & worthless
No timber.

January 27. 1882

See page 6^{1/2}

North bet. Secs. 1 & 6.

Var. 12° 30' E!

Ascending steeply

- 3.00 Top of steep ascend
- 16.00 Summit of high ridge,

Esterion, S. 10^s. R. 31 E. continued

chains

between 400 & 500 ft high,
extending N. E. & S. W.

28.30 Descend.

40.00 Set volcanic rock 18 + 9 + 6 ins.
12 ins. in the ground, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on W. face
and raised a mound of stone
alongside, Pits impracticable.57.80 Foot of descent into dry wash
20 lbs wide course N. E.

76.50 Dry gulch 10 lbs wide course S. E.

80.00 Set volcanic rock 16 + 9 + 5 ins.
10 ins. in the ground, for cor.
to Tps 9 + 10 S. R's 31 + 32 E.
marked with 6 notches, on
each edge, and raised a
mound of stone alongside,
Pits impracticable.Land mountainous, rocky & barren
no timber.

Exterior, T. 10 S. R. 31. E. continued

General Description

Range line between Ranges 31 & 32 E. T. 10 S. passes over a high rolling & then mountainous surface. The northern part of the line, crosses ridges, making down from the Peloncillo Mts. on the N.

The soil is poor or worthless. There is no timber along the line.

Theodore F. White
U. S. Dep. Surveyor.

East Bdy

Exterior Boundaries T. 9 S. R. 31 E.

Chains

From the Cor. to Tps. 9 & 10 S.
R's 31 & 32 E. just established
by me, from

North bet. Secs. 31 & 36.

Var. $12^{\circ} 30' E.$

as per Solar Compass

- 18.00 Top of ridge extending S. W.
30.65 Dry gulch 12 lks wide course N. E.
36.60 Gulch 15 lks wide course N. E.
40.00 Set a volcanic rock $18 \times 18 \times$
5 ins. 12 ins. in the ground,
for $\frac{1}{4}$ Sec. cor. marked
 $\frac{1}{4}$ on W. face, and raised
a mound of stone along
side pit impracticable
46.00 Top of E. point of ridge
250ft high.
71.80 Foot of ridge on N & gulch
40 lks wide course N. E.

Exterior, N. of S. R. 31 E. continued

chains
80.00 Set volcanic rock $14 \times 9 \times 7$ ins.
10 ins. in the ground, for cor. to
Secs. 25, 30, 31 & 36, marked
with 5 notches on N. & 1 notch
on S. 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 along side,
Land mountainous & broken
Rocky & barren
No timber.

North bet. Secs. 25 & 30

Var. $12^{\circ} 30' E.$

16.00 Descend Bluff Bank
20.00 Foot of same
22.33 Dry wash 2000 wide approx. E.
40.00 Set volcanic rock $12 \times 9 \times 6$ ins.

Exteriors. T. 9. S. R. 31 E. continued

chains.

- 8 ins. in the ground, for $\frac{1}{4}$ Sec.
 cor. marked $\frac{1}{4}$ on W. face,
 and build a mound of stone,
 alongside, Pits impracticable.
- 52.00 Descend a second Bank
- 52.50 Dry wash course N. E.
- 56.60 Leave Wash
- 56.94 Ascend Bluff Bank 15 ft
 high extending N. E.
- 70.50 Ridge extending N. E.
- 80.00 ^{Set} Post 4 ft. long, 4 ins. square
 with marked stone, 12 ins.
 in the ground, for cor. to
 Secs. 19, 24, 25 & 30. marked
 T. 9 S. S. 19 on N. E.
 R. 32 E. S. 30 on S. E.
 S. 25 on S. W. and
 S. 24 on N. W. faces, with
 4 notches on N. & 2 notches

Exteriors S. 9 S. R. 31 E. continued

Chairs

on S. edges, dug pits 18x18x12
ins. in each sec. 5 1/2 ft. dist.
and raised a mound of earth
2 ft. high, 4 1/2 ft. base, around
post. from which

A Juniper 10 ins. diam. on north 335 lbs. dist
marked S. 9 S. R. 31 & 32 E. S. 19 & 24 B. T.

A Juniper 15 ins. diam. on S. 55° W. 89 lbs. dist
marked S. 9 S. R. 31 E. S. 25 B. T.

Land Rolling & broken
Soil poor & rocky
No timber.

North bet. Secs. 19 & 24.
Var. 12° 30' E.

6.00 Outer little flat extending E. W.
17.00 Leave camp
21.00 Top of mesa

Exteriors. S. 9 S. R. 31 E. continued

chains

37.50

Descend from mesa

38.00

Foot.

40.00

Set volcanic rock $12 \times 8 \times 6$ ins.
8 ins. in the ground, for $\frac{1}{4}$ sec.

cor. marked $\frac{1}{4}$ on W. face
and raised a mound of stone
alongside, pits impracticable,

41.25

Foot of ridge & ascend,

48.28

Top corner N. E. & S. W.

72.00

Enter flat.

80.00

Set volcanic rock $13 \times 8 \times 7$ ins.

8 ins. in the ground, for cor.

to Secs. 13, 18, 19 & 24 marked
with 3 notches on N. & S. 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 broken

Exteriors T. 9. S. R. 31 E. continued

chain

Soil 2^d + 3^d rate.
No timber.

North bet. Secs. 13 + 18.

Var. 12° 30' E!

- 3.50 Top of ridge + descend
- 9.75 Foot on N.
- 40.00 Set volcanic rock 12 + 8 + 6 ins.
8 ins. in the ground, for ^{1/4} sec cor.
marked 1/4 on W. face, dug
pits 18 + 18 + 12 ins. N + S. of
stone, 5 1/2 ft. dist. and raised
a mound of earth 1 1/2 ft high
3 1/2 ft. base alongside.
- 48.00 Foot of ridge + ascend
- 57.00 Top 20ft high extending N. E.
- 58.00 Descend
- 66.00 Foot of descend

Exteriors. T. 9 S. R. 31 E. continued

chains
8000

Set volcanic rock $14 \times 8 \times 6$ ins.
10 ins. in the ground, for cor.
to Secs. 7, 12, 13 & 18 marked
with 2 notches on N. & 4 notches
on S. edges, and raised a
mound of stone alongside,
Pits impracticable
Land Rolling & broken
Soil poor & stony
No timber.

North bet. Secs. 7 & 12
Var. $12^{\circ} 30' E.$

1.75 Pass over little point
14.50 Enter sloping plain
40.00 Set volcanic rock $17 \times 6 \times 6$
ins. 12 ins. in the ground
for $1/4$ Sec. cor. marked

Exterior N. 9. S. R. 31 E. continued

chains

$1/4$ 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 along side.

80.00 Deposited a charred stake 12 ins. in the ground, for Cor. to Secs. 1. 6. 7 & 12. 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 over it.

In S. E. pit drove a stake 2 ins. square, 2 ft. long, 12 ins. in the ground, marked-

N. 9. S. 6 on N. E.

R. 32 E. S. 7 on S. E.

S. 12 on S. W. and

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

Exteriors T. 9. S. R. 31. E. continued

chains

Laid in plain descending h. E.
Soil some good
No timber.

North bet. Secs. 1 & 6.
Var. 12° 30' E.

40.00 Set volcanic rock 12 + 8 + 6 ins.
8 ins. in the ground, for 1/4
sec. Cor. marked 1/4 on N.
face, and built a mound
of stone alongside Pits
impracticable.

80.00 Deposited a charred stake 12
ins. in the ground, for Cor.
to Sp. 8 & 9 S. R. 31 & 32 E.
dug pits 24 x 18 x 12 ins.
lengthwise on each line,
N. S. E. & W. of cor. left.

Exteriors N. 9 S. R. 31 E. continued

chains

dist. and raised a mound of earth 3ft. high, 6ft base over it.

In S. E. pit drove a stake 2 ins. square, 2ft. long, 12 ins. in the ground, marked -
N. 8 S. S. 31 on N. E.

R. 32 E. S. 6 on S. E.

N. 9 S. S. 1 on S. W. and
R. 31 E. S. 36 on N. W. faces,
with 6 notches on each edge,
Land in Plain descending
N. E.

Soil good
No timber.

20
 Exterior T. 9 S. R. 31 E. continued

General Description

Range line between
 R's 31 + 32 E. T. 9 S.

passes over a mountainous
 surface, on its extreme
 S. end, then broken, & rolling
 & then enters a plain on
 the north end,

There is some good soil
 on the extreme north
 end, of line, otherwise it
 is poor or worthless,

There is no timber
 along the line

Theodore H. White
 U. S. Dep. Surveyor.

East Bdy

BOOK 1589

Exterior Boundaries N. & S. R. 31 E.

chain

From the Cor. to Sps. 8 & 9 S.
R's 31 & 32 E. just established
by me, Imm.

North bet. Secs. 31 & 36

Var. $12^{\circ} 30' E.$

23.00 Leave plain & ascend low
broken hills.

24.75 Top.

40.00 Deposited a charred stake 12
ins. in the ground, for $\frac{1}{4}$ Sec.
Cor. dug pits 18 + 18 + 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 over
it. In N. pit drove a stake
2 ft. long 2 ins. square, 12 ins.
in the ground, marked
 $\frac{1}{4}$ S. on N. face.

60.00 Enter little valley extending N. E.

Exterior N. & S. R. 31 E. continued

chains

68.00

Leave same.

80.00

Set a limestone $14 \times 14 \times 3$ ins.
10 ins. in the ground, for cor.
to Secs. 25, 30, 31 & 36 marked
with 5 notches on N & 1 notch
on S. 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
along side.

Land broken.

Soil 2^d & 3^d rate

No timber.

North bet. Secs. 25 & 30

Var. $12^{\circ} 30' E.$

40.00 Set a limestone, $17 \times 12 \times 5$ ins.
12 ins. in the ground, for

Exterior N. & S. R. 31 E. continued

chain

1/4 Sec. cor. marked 1/4 on N. face, dug pits 18x18x12 ins.

N x S. of stone 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base alongside,

00.00

Set volcanic rock 14x6x5 ins. 10 ins. in the ground, for cor.

to Secs. 19. 24. 25 x 30. marked with 4 notches on N. & 2 notches on S. edges, and raised a mound of stone alongside, Pits impracticable.

Land broken

✓ Soil 2^d & 3^d rate

No timber.

Jan. 28. 1882.

Exterior S. 8 S. R. 31 E. continued

chains

North bet. Secs. 19 & 24
 Var. $12^{\circ} 30' E.$

Ran down a narrow Cañon

40.00 Set volcanic rock $17 \times 6 \times 5$ ins.
 12 ins. in the ground, for $\frac{1}{4}$ sec
 cor. marked $\frac{1}{4}$ on W. face,
 and built a mound of
 stone alongside, Pits impract-
 icable.

69.50 Leave Cañon bearing E of N.
 and ascend high mesa.

72.25 Top of same.

80.00 Alongside of deep gully running
 E from mesa, set volcanic
 rock $12 \times 10 \times 6$ ins. 8 ins. in
 the ground, for cor. to Secs.
 13, 18, 19 & 24. marked with
 3 notches on N. & S. edges,
 and raised a mound of stone

Exterior N. & S. R. 31 E. continued

chains

alongside. Pits impracticable.
Land some broken & descending
N.

Soil poor.
No timber.

North. bet. Secs. 13. & 18
Var. $12^{\circ} 30' E.$

Ascend

- 3.00 Top of ridge
5.75 a large Juniper tree 50 lks E.
14.00 Leave mesa & enter bottom
of Gila River course N. W.
29.69 Left Bank of Gila River
running N. W. set a post for
witness point. set flag on line
on opposite bank measure off
Base line 100 lks N. from

Exterior S. & S. R. 31 E. continued

chains

- the end of which, flag bears
 N. $15^{\circ} 39'$ E. therefore dist. 3.57 chs or.
- 33.26 to Right bank where I set post
 for witness point
- 40.00 Set a post 3 ft. long 3 ins. square
 24 ins. in ⁵the ground, for $\frac{1}{4}$
 Sec. cor. marked $\frac{1}{4}$ S. on $\frac{1}{4}$ ^{and raised a mound of earth ground post.}
 face, _N from which.
- a Cottonwood 24 ins. diam. br. N. $8\frac{1}{2}^{\circ}$ E. 85 chs. dist.
 marked $\frac{1}{4}$ S. B. P.
- a Cottonwood 22 ins. diam. br. N. 47° W. 77 chs. dist.
 marked $\frac{1}{4}$ S. B. P.
- 46.65 Pass along Bend of River cor. N. W.
- 50.50 Leave Bend River cor. N. W.
- 72.40 Road from Silver City to Clifton
 cor. N. W.
- 80.00 Set a post 4 ft. long, 4 ins. square,
 with marked stone, 12 ins.
 in the ground, for cor. to

Exterior S. & S. R. 31 E. continued

chains

Secs. 7, 12, 13, & 18. marked
 N. & S. S. 7 on N. E.
 R. 32 E. S. 18 on S. E.
 S. 13 on S. W. and
 S. 12 on N. W. faces, with 2 notches
 on N & 4 notches on S. edges,
 dug pits 18+18+12 ins. in each
 Sec. 5 1/2 ft. dist. and raised
 a mound of earth 2 ft. high,
 4 1/2 ft. base around post.
 Land level after leaving these
 good soil along River Bottom
 Cottonwood & Willow along River.

North bet. Secs. 7 & 12:

Var. $12^{\circ} 24' E$

as per Solar Compass

4000 Set a post 9 ft. long, 3 ins. square,

Estero N. & S. R. 31 E. continued

chains

with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. on N. face, dug 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.

80.00 Set a limestone $18 \times 10 \times 4$ ins. 12 ins. in the ground, for cor. to Secs. 1.6. 7×12 . marked with 1 notch on N. & 5 notches on S. 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 along side. Land in Plain descending S. Soil good. No timber.

Exteriors. T. & S. R. 31 E. continued

chains

North bet. Secs. 1 & 6.

Var. $12^{\circ} 24' E.$

40.00 Set a sandstone $14 \times 10 \times 4$ ins.
 10 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.
 N & S. of stone $5\frac{1}{2}$ ft. dist. &
 raised a mound of earth
 $1\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base
 along side.

56.50 Leave plain & ascend
 low broken hills.

59.05 Top of low ridge extending S. W.

80.00 Set a post $4\frac{1}{2}$ ft. long. 4 ins.
 square, with marked stone,
 12 ins. in the ground, for cor.
 to Tps 7 & 8 S. Rs 31 & 32 E.
 marked T. 7 S. S. 31 on N. E.
 R. 32 E. S. 6 on S. E.

Exterior N. & S. R. 31 E. continued

chains

N. & S. S. 1 on S. W. and
 R. 31 E. S. 36 on N. W. faces,
 with 6 notches on each edge,
 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, 5 ft.
 base around post.
 Land in plain ascending N.
 then broken.
 Soil good & 2^d rate
 No timber.

31
Exterior N. & S. R. 31 & continued

General Description
Range ^{line} Between Rs 31 & 32
E. N. & S. passes over a
surface that is more or less
broken until it enters the
Gila River bottom after
which it is, comparatively
level, There is some good
land along the river bottom
otherwise the soil is poor
There is some cottonwood
& willow timber immediately
along the river.

Theodore J. White,
U. S. Dep. Surveyor.

East Bdy

Exterior Boundaries T. 7 S. R. 31 E.

Chains

From the Cor. to Sps. 7 & 8 S.
 R's 31 & 32 E. just established
 by us, Iron,
 North bet. Secs. 31 & 36.
 Var. $13^{\circ} 00' E.$

as per Solar Compass.

- 36.30 Dry wash course S. W.
 39.00 Leave same
 40.00 Set a post 2 ft long 3 ins. square,
 with marked stone, 12 ins. in
 the ground, for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ S. on W. face,
 dug pits $18 \times 18 \times 12$ ins. N & S.
 of post $5\frac{1}{2}$ ft. dist. and
 raised a mound of stone,
 $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. bed around
 post.
 48.63 Dry Wash course S. W.
 49.32 Leave it.

Exterior. N. 7 S. R. 31 E. continued

chains

80.00 At foot of high ridge, set
 a post 4 ft long, 4 ins. square
 with marked stone 12 ins.
 in the ground, for cor. to
 Secs. 25, 30, 31 & 36, marked
 N. 7 S. S. 30 on N. E.
 R. 32 E. S. 31 on S. E.
 S. 36 on S. W. and
 S. 25 on N. W. faces, with
 5 notches on N. & 1 notch on
 S. edges, and raised a
 mound of stone 2 ft. high,
 4 1/2 ft. base around post.
 Pits impracticable.
 Land broken
 Soil poor.
 No timber.

Exteriors N. 7 S. R. 31 E. continued

chains

North bet. Secs. 25 & 30

Var. 13° E.

Ascend

7.00 Top of high point of table land

40.00 Set a post 4 ft. long, 3 in. square, with marked stone 12 in. in the ground, for 1/4 Sec. cor. marked 1/4 S. on W. face, and raised a mound of stone around post from which.

A Juniper 24 in. diam. b. 6° E. 178 lbs. dist.

marked 1/4 S. B. T.

50.60 Dry wash 15 lbs wide, course S. W.

63.16 Dry wash 20 lbs wide course S. W.

68.50 Ascend to top of table land

80.00 Set a post 4 ft. long, 4 in. square, with marked stone 12 in. in the ground, for ^{cor.} to sec 19. 24. 25 & 30. marked S. 7 S. S. 19 on N. E

Exteriors. N. 7. S. R. 31 E. continued

Chain

R. 32 E. S. 30 on S. E.
 S. 25 on S. W. and
 S. 24 on N. W. faces, with 4 notches
 on N. and 2 notches on S. edges,
 dug pits 18+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 around post.

Land broken

Soil 2^d rate

No timber.

North bet. Secs. 19 + 24
 Var. 130 E.

26.20 Descend from high table land

3000 Foot of same

40.00 Set a post 2 ft. long 3 ins. square,
 with marked stake, 12 ins. in the

Exterior, T. 4 S. R. 31 E. continued

chains

- ground, for $\frac{1}{4}$ Sec. cor. marked
 $\frac{1}{4}$ S. on W. face, and raised
 a mound of stone around
 post. pits impracticable.
- 44.70 Dry Wash course S. of W.
- 45.28 Leave wash.
- 48.00 Ascend steeply
- 64.50 Top of high table land
- 80.00 Set a post 4 ft long 4 ins. square
 with marked stone, 12 ins. in
 the ground, for cor to Secs.
 13. 18. 19. 24. marked -
 T. 7 S. S. 18 on N. E.
 R. 32 E. S. 19 on S. E.
 S. 24 on S. W. and
 S. 13. on N. W. faces, with 3
 notches on N & S. edges, and
 raised a mound of stone around
 post, Pits impracticable.

Exteriors. S. 7 S. R. 31 E. continued

chains.

Land very broken
Soil 2^d & 3^d rate
No timber.

North bet. Secs. 13 & 18

S. Var 13° E.

28.10 Dry wash 10 lks wide course S. W.

40.00 Set a post 4 ft. long 3 ins. square,
with marked stone 12 ins. in the
ground, for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ S. on W. face, and raised
a mound of stones 1 $\frac{1}{2}$ ft high,
3 $\frac{1}{2}$ ft. base around post,
Pits impracticable.

55.10 Dry wash course S. W.

56.80 Leave wash

80.00 Set a post 4 ft. long, 4 ins. square,
with marked stone, 12 ins. in the

58
 Exterior N. 7 S. R. 31 E. continued

Chains

ground, for cor. to Secs. 7. 12.

13 & 18, marked -

N. 7 S. S. 7 on N. E.

R. 32 E. S. 18 on S. E.

S. 13 on S. W. and

S. 12 on N. W. faces, with 2 notches
 on N. and 4 notches on S. edges.

and raised a mound of stone,
 2 ft. high, 4 1/2 ft base, around post,
 from which.

A Juniper 12 ins. diam. to N. 58° E. 296 lbs. dist.
 marked N. 7 S. R. 32 E. S. 7. B. T.

A Juniper 6 ins. diam. to South 86 lbs dist.
 marked N. 7 S. R. 31 & 32 E. S. 13 & 18 B. T.

Laid very broken

Soil 3^d rate

No timber.

Exterior, T. 7 S. R. 31 E. continued

chains

North, bet. Secs. 7 & 12
 Var. 13° E.

- 7.00 Descend from ridge extending
 W.
- 11.30 Dry wash 12 lks wide course W.
- 16.50 Top of ridge 100 ft. high extending W.
- 19.50 Descend
- 40.00 Set a post 8 ft. long 3 in. square,
 with marked stone 12 in. in the
 ground, for 1/4 sec. cor. marked
 1/4 S. on W. face, and raised
 a mound of stone 1 1/2 ft. high,
 3 ft. base, around post. Pits
 impracticable.
- 41.00 Dry wash course W.
- 41.70 Leave wash
- 43.30 Road dirn course N. E.
- 80.00 Set a post 4 ft long 4 in. square
 with marked stone 12 in. in the

Exteriors, N. 7 S. R. 31 E. continued

chains
 ground
 for. cor. to Secs. 1, 6, 7, & 12, marked
 N. 7 S. S. 6 on N. E.
 R. 32 E. S. 7 on S. E.
 S. 12 on S. W. and
 S. 1 on N. W. faces, with 1 notch
 on N. & 5 notches on S. edges,
 and raised a mound of stones,
 4 ft. high, 4 ft. base around
 post. Pits unpracticable.
 Land very broken
 Soil 3^d rate
 No timber.

North bet. Secs. 1 & 6.
 Var. 13° E.

5.00 Top of ridge & descend
 14.80 Dry wash 18 lbs wide corner W.
 40.00 Set a post 3 ft. long, 3 in. square

47

Exterior N. 7 S. R. 31 E. continued

Chains

with marked stone, 12 ins. in
the ground, for $\frac{1}{4}$ Sec. cor.
marked $\frac{1}{4}$ S. on N. face,
and raised a mound of stone
 $1\frac{1}{2}$ ft. high, 3 ft. base around
post. Pits impracticable.
This post is on Ridge extending
W.

- 47.00 descend from high table land
57.00 Bottom & enter cañon course W.
60.78 Wash, course S. W.
61.90 Leave wash
65.00 Leave Cañon
80.00 Set a post 4 ft. long, 4 ins. square,
with marked stone, 12 ins. in
the ground, for cor. to Tps 6 & 7
S. Rs 31 & 32 E. marked -
T. 6 S. S. 31 on N. E.
R. 32 E. S. 6 on S. E.

Exterior N. 7 S. R. 31 E. continued

chains

N. 7 S. S. 1 on S. W. and
R. 31 E. S. 36 on N. W. faces,
with 6 notches on each edge,
dug pits, 24 x 18 x 12 ins.

lengthwise on each line,
N. S. Ex W. of post 6 ft. dist,
and raised a mound of
stones, 2 1/2 ft. high, 5 ft. base
around post.

Land very broken
Soil poor & stony
Some brush along Cañon
No timber.

January 30. 1882.

Exteriors T. 7 S. R. 31 E. continued

General Description

Range line between Rs.
31 & 32 E. T. 7 S.
passes over a high broken
surface. The soil is poor.
There is no timber
along the line.

Theodore H. Whitey
U. S. Dep. Surveyor.

East Bdy

Exterior Boundaries T. 6 S. R. 31 E.

chains

From the Corner to Sp. 6 & 7.
 R's 31 & 32 E. just established
 by me Omm.

North bet. Secs. 31 & 36.

Ver. 13.00 E.

as per Solar Compass.

10.00 Top of high ridge 150ft high
 extending W.

26.00 Descend

34.50 Dry wash 20lbs wide course S.W.

40.00 On top of ridge. Set a post
 3ft. long, 3ins. square, with
 marked stone 12ins. in the
 ground, for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ S. on W. face, and raised
 a mound of stone $1\frac{1}{2}$ ft. high,
 3ft. base around post. *Per impression*

50.00 Ridge 100ft high course W.

67.80 Dry wash 15lbs wide course W.

Exterior. N. 6 S. R. 31 E. continued

Chains

76.50 Ridge 100ft. high, and descend
 80.00 Set a post 4 ft. long 4 in. square,
 with marked stone, 12 in. in
 the ground, for cor. to Secs.
 25, 30, 31 & 36 marked
 N. 6 S. S. 30 on N. E.
 R. 32 E. S. 31 on S. E.
 S. 36 on S. W. and
 S. 25 on N. W. faces, with 5
 notches on N. & 1 notch on S.
 edges, and raised a mound
 of stone 2 ft high, 4 1/2 ft. base
 around post. Pit impracticable.
 Land high rolling & broken
 Soil poor & stony
 No timber.

Exteriors. N. 6 S. R. 31 E. continued

chains

North bet. Secs. 25 & 30

Var. 130° E.

- 9.64 Dry Wash 20 lbs wide course W.
 23.00 Ridge extending W.
 37.17 Dry Wash 18 lbs wide course W.
 40.00 Set a post 3 ft. long 3 ins. square, with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on ~~W.~~ face, and raised a mound of stone $\frac{1}{2}$ ft. high, $3\frac{1}{2}$ ft. base, around post, pits impracticable
 +
 48.00 Ridge extending W.
 54.80 Dry wash 12 lbs wide course W.
 71.00 Ridge extending W. 200 ft high,
 80.00 Set a post 4 ft. long 4 ins. square, with marked stone, 12 ins. in the ground, for cor. to Secs.

Esteros N. 6 S. R. 31 E. continued

chains

19, 24, 25, & 30 marked -
 T. 6 S. S. 19 on N. E.
 R. 32 E. S. 30 on S. E.
 S. 25 on S. W. and
 S. 24 on N. W. faces, with 4
 notches on N. and 2 notches
 on S. edges, and raised a
 mound of stone, 2 ft high,
 4 1/2 ft. base around post,
 pits unpracticable.
 Land high, rolling &
 broken
 Soil poor & stony
 no timber.

North bet. Secs. 19 & 24
 Var. 13° E.

1.00 Descend from high ridge.

Exteriors N. 6 S. R. 31 E. continued

chains	
22.00	Foot
26.60	Dry wash course S of W.
27.85	Leave Wash
33.00	Top of ridge
40.00	Set a quartzite rock 12 x 10 x 8 ins. 8 ins. in the ground, for 1/4 Sec. cor. marked 1/4 on W. face, dug pits 18 x 18 x 12 ins. N & S. of stone 5 feet. dist. and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base along side,
50.00	Leave ridge
54.75	Dry wash
59.00	Top of ridge course S. of W.
72.20	Foot
77.40	Cutor wash 200 ft wide course S. of W.
80.00	Set a post 4 ft. long, 4 ins. square, with marked stone, 12 ins. in the ground, for. cor. to Secs. 13. 18

Esterino T. 6 S. R. 31 E. continued

chains

19 & 24 marked-

T. 6 S. S. 18 on N. E.

R. 32 E. S. 19 on S. E.

S. 24 on S. W. and

S. 13 on N. W. faces, with
3 notches on N & S. edges,
and raised a mound of stones,
2 ft. high, 4 1/2 ft. base around
post, from which.

A Juniper 12 in. diam. loc. N. 32° E. 406 lbs. dist.
marked T. 6 S. R. 32 E. S. 18. B. T.

Land very broken

Soil poor.

some Brush & scattering trees
along Washes.

North bet. Secs. 13 & 18
Var. 13° E.

20
 Exterior N. 6 S. R. 31 E. continued

chains

2.50 Dry wash 50 lbs wide course S. W.

13.00 Ascend -

17.90 Top of table land

40.00 Set a Porphyry rock $15 \times 12 \times 9$
 ins. 10 ins. in the ground
 for $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}$ on W. face, and raised
 a mound of stone, alongside,
 Pits impracticable.

45.00 Top of higher Bank of
 table land -

80.00 Set a porphyry rock $15 \times 9 \times$
 4 ins. 10 ins. in the ground,
 for cor. to Secs. 7, 12, 13, 18.
 marked with 2 notches on
 N. & 4 notches on S. edges,
 dug pits $18 \times 18 \times 12$ ins. in
 each sec. $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth

Exterior T. 6 S. R. 31 E. continued

chain
2 ft. high, 4 1/2 ft. base along
side
Land high & rolling
Soil stony & 3^d rate
No timber.

North bet. Secs. 7 & 12.
Twp. 13° E.

- 7.20 Dry wash 20 lks wide course S. W.
29.00 Ridge course S. W.
40.00 Set a porphyry rock 14 x 10 + 7 ins.
10 ins. in the ground, for 1/4 Sec
Cor. marked 1/4 on N. face,
and raised a mound of stones
alongside. Pits impracticable.
41.00 Ridge extending S. W.
49.50 Foot
54.20 Dry wash 40 lks wide course S. W.

31

Exteriors T. 6 S. R. ~~2~~ E. continued

chains

63.00 Ridge

74.70 Dry wash 100 ft wide course S. W.

80.00 Set a porphyry rock 16 x 8.5
ins. 11 ins. in the ground,
for cor. to Secs. 1, 6, 7 & 12
marked with 1 notch on N.
& 5 notches on S. edges, and
raised a mound of stone
alongside, Pits impracticable,
Layd High & rolling
Soil 3^d. rate
No timber.

North bet. Secs. 1 & 6.
Var. 13° E.

12.00 Top of ridge course S. W.

21.20 Gulch course S. W.

26.50 Ridge extending S. W.

Exteriors S. 6 S. R. ³¹ & E. continued

chain

- 37.95 Enter dry wash course S. W.
 38.45 Leave same.
 40.00 Set a post 2 ft. long, 3 ins. square,
 with marked stone, 12 ins. in
 the ground, for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ S. on W. face,
 and raised a mound of stone
 $1\frac{1}{2}$ ft. high 3 ft. base around
 post. Pits impracticable
 62.00 Ridge extending S. W.
 72.00 Leave ridge
 78.90 Dry wash 10 lks wide course S. W.
 80.00 Set a post $4\frac{1}{2}$ ft. long, 4 ins.
 square, with marked stone, 12
 ins. in the ground, for ^{closing} cor.
 to Tps. 6 S. R. 31 & 32 E.
 marked C.C. S. 6 S. on S.
 R. 32 E. S. 6 on E. and
 R. 31 E. S. 1 on W. face, with

Exteriors N. 6 S. R. 31 E. continued

Chains

6 butches on S. E. & W. faces.
 dug pits $24 \times 18 \times 12$ ins. cross
 wise on each line, S. E. & W.
 of post 6 ft. dist. and raised
 a mound of stone, $2\frac{1}{2}$ ft.
 high, 5 ft. base, around post.
 Land High & rolling &
 broken

Soil 3^d rate

No timber

January 31. 1882.

Exterior T. 6 S. R. 31 E. continued.

General Description
Range line, Between
R's 31 & 32 E. T. 6 S. passes
over a high rolling & broken
surface,

The soil is poor and there
is no timber on the line,
except occasional trees
along washes,

Theodore F. White
U. S. Dep. Surveyor.

East Bdy

Exterior Boundaries T. 5 S. R. 29 E.

chains

From the Standard Town-
ship Cor. to Tps 5 S. R. 29 E.
30 E. just recently set by us,
From

North bet. Secs. 31 & 36.

Var. $12^{\circ} 30' E.$

as per Solar Compass.

- 9.00 Ridge extending N. E.
15.65 Gulch 1000 wide course N. E.
29.00 Ridge extending N. E.
40.00 Set volcanic rock $17 \times 8 \times 4$ ins.
12 ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ on N. face,
and raised a mound of
stone alongside Pits impract-
icable.
46.00 Leave ridge
80.00 Set volcanic rock $13 \times 9 \times 5$
ins. 8 ins. in the ground,

Exterior. T. 5 S. R. 29 E. continued.

chains

for. cor. to Secs. 25, 30, 31 & 36.
 marked with 5 notches on N.
 & 1 notch on S. edges, and
 raised a mound of stone
 alongside. Pits impracticable.
 Land broken mesa sloping N.
 Soil poor & stony.
 No timber.

North bet. Secs. 25 & 30.

Var. $42^{\circ} 30' E.$

7.57 Top of high bluff Bank of
 Cañon of the Gila River, bearing
 N. N. There is no bottom land
 along the river, at this point.
 I set flag on line on N. side of
 river & Cañon. measure base
 line 300 lbs N. from the end of

Exterior S. S. R. 29. E. continued

chains

which flag bears N. 18° 10' E.
therefore distance 9.15 chs or.

16.66 to N. side of Cañon & river,
where I set a post and mound
of stone, for witness point.

27.00 Ascend round hill

37.50 Top of same 150 ft. high.

40.00 Set volcanic rock 15 × 8 × 4 ins.

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

cor. marked $\frac{1}{4}$ on N. face,

and raised a mound of
stone alongside, *Peto impactic sb.*

42.70 Leave hill on N. side

50.00 Ridge extending S. W.

54.56 Dry wash 12 lbs wide come S. W.

80.00 Set a post 4 ft. long, 4 ins. square

with marked stone 12 ins. in

the ground for cor. to Secs. 19,

24, 25 & 30. marked

Exteriors N. 5 S. R. 29 E. continued

chain.

N. 5 S. S. 19 on N. E.
 R. 30 E. S. 30 on S. E.
 S. 25 on S. W. and
 S. 24 on N. W. faces, with 4
 notches on N. and 2 notches
 on S. edges, dug pits 18+18+12
 in. in each sec. 5 1/2 ft. dist.
 and raised a mound of
 earth 2 ft. high, 4 1/2 ft. base
 around post.

Sand uneven and ascending
 North.

Soil 3^d rate
 No timber.

North, bet. Secs. 19 & 24
 Var. 12° 30' E.

13.48 Road to San Francisco

Estero, S. 5 S. R. 29 E. continued

chains.

River course S. W.

24.83 Dry Wash 20lbs wide course S. W.

40.00 Set a quartzite rock $12 \times 9 \times 8$ ins.

8 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. 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 porphyry rock $13 \times 8 \times 5$ ins.

8 ins. in the ground, for $\frac{1}{4}$ Sec.

Cor. marked $\frac{1}{4}$ on W. face,

and raised a mound of stone

alongside, Pits impracticable.

Land uneven, high & rolling

Soil poor

No timber.

61
 Exterior S. 5 S. R. 29 E. continued

chains

North bet. Secs. 13 & 18.

Var. $12^{\circ} 30' E$

- 46.00 Set volcanic rock $11 \times 10 \times 6$ ins.
 8 ins. in the ground, for $\frac{1}{4}$ sec.
 Cor. marked $\frac{1}{4}$ on N. face,
 and raised a mound of stone
 alongside, Pits impracticable.
- 46.22 Road along top of high ridge,
 course S. W. to San Francisco River.
- 53.10 Deep gulch running N. W.
 into San Francisco River.
- 71.17 Gulch running N. W. into first gulch
- 80.00 Set a post 4 ft. long, 4 ins. square
 with marked star, 12 ins. in
 the ground, for cor. to Secs.
 7, 12, 13 & 18, marked—
 S. 5 S. S. 7. on N. E.
 R. 30 E. S. 18 on S. E.
 S. 13 on S. W. and

Exterior N. 5 S. R. 29 E. continuous

chain

S. 12 on N. W. face, with 2
notches on N. & 4 notches on
S. edges, and raised a mound
of stone alongside, from which
a gopher 15 in. diam. bo. S. 47 1/2° W. 103
marked N. 5 S. R. 29 E. S. 13. B. S.
office of Church's new smelting
works bears N. 62° W. about 1/2
mile dist.

Land broken & cut up by
deep gulches & high ridges.

Soil poor.

No timber.

Western, T. 5 S. R. 29 E. continued.

ms

North bet. Secs. 7 & 12.

Var. $12^{\circ} 30' E.$

- | | | |
|-------|---|-------|
| 11.00 | Descend from high ridge - | |
| 16.10 | Rocky gulch 2000 wide course N. W. | |
| 20.50 | Rocky ridge course N. W. | 20.50 |
| 31.00 | Leave ridge, | 31.00 |
| 34.00 | Dry wash course N. W. | 34.00 |
| 35.00 | Leave wash | 35.00 |
| 39.00 | Top of ridge extending N. W. | 39.00 |
| 40.00 | Set a post, 3 ft. long, 3 ins. square, | 40.00 |
| | with marked stone 12 ins. in the | |
| | ground, for $\frac{1}{4}$ sec. cor. marked | |
| | $\frac{1}{4}$ S. on N. face, dug pits 18 | |
| | $\times 18 \times 12$ ins. N & S. of post. | |
| | \downarrow 5 $\frac{1}{2}$ ft. dist. and raised a | |
| | mound of stone around post. | |
| | Descend S. W. | |
| 49.39 | left Bank of San Francisco River | |
| | set a post for witness point. | |

Exterior S. S. R. 29 E. continued

chains

I set flag on line on right bank measure base line 100 ft. E. from the end of which flag bears N. $26^{\circ}13'$ W. therefore distance is. 2.03 chs or.

45.92 to right Bank of river course S. W. here I set a post for witness point.

57.36 Road along River course S. W. & leave Cañon of the river.

54.80 Top of high table land

68.00 Ascend S. E. slope

80.00 Top of Ascend, Set a granite stone, $16 \times 8 \times 8$ ins. 11 ins. in the ground, for cor. to Seco. 1.6. 7×12 . marked with notch on N. & 5 notches on S. edges, and raised a mound of stone alongside,

Exteriors T. 5 S. R. 29 E. continued

Chairs

Pits impracticable.
 Land very broken
 Soil poor & stony.
 There is no bottom along the
 river.
 No timber of any consequence.

North bet. Secs. 14 & 6.
 Var. $12^{\circ} 30' E.$

- 7.35 Rocky gulch 15 lks wide course
 S. E.
- 28.00 High bluff overlooking San Francisco
 River to the East, Descend
 very steeply.
- 40.00 Set volcanic rock $12 + 8 + 7$ ins.
 8 ins. in the ground, for $\frac{1}{4}$ Sec.
 cor. marked $\frac{1}{4}$ on N. face,
 Aug pits $18 + 18 + 12$ ins. N. S.

Esterior S. S. R. 29. E. continued

chain

of stone, 5 1/2 ft. dist. and raised a mound of earth 1 1/2 ft. high, 3 1/2 ft. base along side.

60.00 On top of small table of lead

80.00 Set a granite stone 17 x 7 x 6 ins.

12 ins. in the ground, for cor.

to Sps. 4 & S. R's 29 & 30 E.

marked with butches,

on each edge, and raised,

a mound of stone 3 ft.

high, alongside.

Laid broken & in places precipitous.

Soil poor

No timber

February 2. 1882.

61
Exteriors N. 5 S. R. 29 E. continued

General Description

Range line between R's
29 & 30 E. N. 5 S. passes
over a very rugged surface,
lying along the Gila & San
Francisco Rivers, near their
junction

The soil is poor & there is
no timber of any conse-
quence.

Theodore J. White
U. S. Dep. Surveyor.

East Bdy

Exterior Boundaries. T. 4 S. R. 29 E.

Chains

From the Corner to Spo.
 4 + 5 S. R's 29 + 30 E.
 just established by me
 9 mm.

North bet. Secs. 31 + 36
 Var. $12^{\circ} 30' E.$

as per Solar compass

30.00 ascend high ridge

40.00 Set volcanic rock $14 \times 12 \times 6$
 ins. 10 ins. in the ground,
 for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on W. face, and build a
 mound of stones, along-
 side, Pits impracticable.

49.00 Top of ridge extending S. W.

67.50 Rocky gulch 20 lbs wide corner S. E.

80.00 Set a porphyry rock $18 \times 12 \times 8$
 ins. 12 ins. in the ground
 for cor. to Secs. 15. 30. 31 + 36

N. Bound of 45302

N. Bound

30

Exteriors N. 4 S. R. 29. E. continued

chains

marked with 5 notches on N.
 & 1 notch on S. edges, and
 raised a mound of stone
 alongside, Pits impracticable.
 The surface becomes mount-
 ainous, from this mile. from
 the slopes, that make down
 from the Mountains on
 N. W.

Soil poor.

No timber.

North bet. Secs. 25 & 30.

Var. $12^{\circ}30' E$

- 9.00 Road come E. W. from San
 Francisco River to Mines.
- 10.20 High bluff overlooking cañon
 of Chasco. Creek. Second supply.

Exterior S. 4 S. R. 29 E. continued

chains

33.30 Bottom of descend & enter cañon course E.

38.22 Track of narrow guage rail-road from Clifton Smelting works to copper mines, ^{course} W.

40.00 Set a porphyry rock 30 x 10 x 9 ins. 23 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W. face, and raised a mound of stone, alongside 3ft. high, from which a Mesquite 3 ins. diam. br. S. 12 1/2° E. 12 1/4 lbs dist. marked 1/4 S. B. P.

✓ a Mesquite 4 ins. diam. br. S. 44 1/4° W. 12.5 lbs dist. marked 1/4 S. B. P.

Clifton a settlement, composed of the Longfellow Copper Mining Co. smelting works, and their offices, houses, & houses of their employees,

71
 Exterior N. 4 S. R. 29 E. continued

chains.

etc. is East of this corner, the first buildings being 25 Ch's dist. along San Francisco River. ascend Bluff of rocks & leave Cañon

42.00 Top.

53.25 High, ridge extending E.

70.20 Top of another high ridge, extending E.

80.00 Set a post 4 ft. long, 4 ins square, with marked stone, 12 ins. in the ground, for cor. to Secs. 19.

24. 25 & 30. marked
 N. 4 S. S. 19 on N. E.

R. 30 E. S. 30 on S. E.

Post 25 on S. W. and

S. 24 on N. W. faces, with 4 notches on N. & 2 notches on S. edges, and raised around

Exteriors N. 4 S. R. 29 E. continued

chains

of stones alongside, Pits
impracticable,
Land mountainous, very
rugged & precipitous
Soil poor.
No timber.

X

North, bet. Secs. 19 & 24
Var. 12° 30' E.

- 3. 25 Rocky gulch 2000 wide course E.
- 13. 52 High ridge extending E.
- 31. 99 Near top of another high ridge
ascent less steep.
- 33. 50 Summit of ridge 300 to 400 ft
above San Francisco River,
- 40. 00 Set a post 3 ft. long, 3 ins. square,
with marked stone, 12 ins.
in the ground, for 1/4 sec.

Exteriors N. 4 S. R. 29 E. continued

Chains

cor. marked $\frac{1}{4}$ S. on W. face,
and raised a mound of fetters,
around post, Pits impracticable,
from which

a *Juniper* 24 ins. diam. br. N. 30° E. 179 lbs dist.

✓ marked $\frac{1}{4}$ S. B. P.

54.50 Ridge 500ft high extending E.

56.50 Descend

70.80 Rocky gulch 20lbs wide course E,
ascend

76.00 Top of ridge 350ft. high extending E.
Descend

80.00 Set a limestone $18+8+6$ ins.

12 ins. in the ground, for cor. to
Secs. 13. 18. 19 + 24. marked -

N. 4 S. S. 18 by N. E.

R. 30 E. S. 19 on S. E.

S. 24 on S. W. and

S. 13 on S. W. faces, with

Exterior S. 4 S. R. 29 E. continued

chain

3 notches on N + S. edges, and
 raised a mound of stone
^{alongside} ~~around~~ ^{stone} post from which
 a gopher 16 ins. diam. by S. $21\frac{1}{4}^{\circ}$ W. 257 lbs dist.
 marked S. 4 S. R. 29 E. S. 24 B. T.
 Land mountainous, & precipitous
 Soil poor
 No timber.

North bet. Secs. 13 & 18.

Var. $12^{\circ} 30' E.$

- 1.50 Rocky gulch 20 ft wide course E.
 8.40 Ridge extending E.
 10.00 Descend steeply.
 22.00 Bottom of rocky bluff &
 enter Cañon of San Francisco
 River.
 25.00 Bright Bank of river

Exteriors N. 4 S. R. 29 E. continued

chains

course S. E. Set a post for witness point. Measure across.

29.76 To left bank of river set post for witness point. River runs S. E.

36.80 Left Bank of River again runs S. W. set post for witness point, measure across.

39.31 To right Bank, set post

40.00 Set a post 4 ft. long, 3 ins. square, with marked stone, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on W. face, and raised a mound of stone around post, from which.

a Cottonwood 18 ins. diam. br. N. 84° E. 168 lbs. dist.

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

a Cottonwood 18 ins. diam. br. S. $36\frac{1}{4}$ W. 390 lbs dist

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

Exterior N. 4 S. R. 29 E. continued

- chains
- 42.00 Leave bottom
- 46.00 Top of ridge extending N. E. cross rocky break
- 48.20 N. side of break
- 56.00 Ridge 200ft. above River Bottom extending E. descend
- 62.20 descend from Bluff Bank into River bottom again,
- 62.80 Enter Bottom course S. E.
- 63.23 Road along Bottom

Feb. 3. 1882.

- 65.84 Right bank of San Francisco River runs S. E. set post for witness point. set flag on opposite side on line, measure of base 100 lbs West at end of which flag brs N. 29° 09' E. therefore dist. 1.79 chs or
- 67.63 to left Bank, mark a

Exterior N. 4 S. R. 29 E. continued

chains

Cottonwood tree 16 ins. diam.
on line at this point, for
witness point.

67.86 Drain building of Hydraulic
Company's pipe works, offset
around them.

69.23 Road along Bottom course
N. W & S. E.

80.00 Set a Porphyry rock 14x9x7
ins. 10 ins. in the ground, for
cor. to Secs. 7. 12. 13 & 18.

marked with 2 notches on N.
& 4 notches on S. edges, and
raised a mound of stones,

3 1/2 ft. high, along side,
Pits impracticable,

This is at foot of ridge to N & E.
Land mountainous & broken
& precipitous, the line

Exteriors N. 4 S. R. 29 E. continued

chains

crosses the San Francisco River several times, soil along line poor.
Some Cottonwood trees along river.

North bet. ^{Secs} 7 & 12

Var. $12^{\circ} 30' E.$

- 0.20 Ascend steep ridge come N.
3.20 Top
8.00 Descend from ridge
10.00 "Croville" a collection of houses connected with the Hydraulic Company's operations is West of this point, the first houses are about 6 chs dist. along river Bottom.
11.60 Enter River Bottom again

79
 Exterior S. & S. R. 29 E. continued

- chains
- 15.00 To left Bank of San Francisco River course S. W. set witness post. set flag on line on opposite side measure base line 100 lks West. from the end of which flag bears N. 13° E. therefore distance 4.93 chs or.
- 19.33 To right Bank, set witness post.
- 24.90 Ditch running S. W.
- 26.50 Leave Bottom course S. W. & ascend ridge,
- 38.25 Top of ridge extending E.
- 40.00 Set a lava rock 15 + 11 + 8 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face, and raised a mound of stone alongside, Pits impracticable.

Exteriors T. 4 S. R. 29 E. continued.

chains

57.65 Descend from Ridge

55.67 Rocky gulch course E. & ascend

54.60 Ascend less steep.

71.24 Deep break to North

74.68 An N. side of Break

80.00 Set a post 4 ft. long, 4 ins.

square, with marked stone,
12 ins. in the ground, for

Cor. to Secs. 1, 6, 7 & 12.

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

R. 30 E. S. 7 on S. E.

R. 29 E. S. 12 on S. W. and

S. 1 on N. W. faces, with

1 notch on N. & 5 notches on

S. edges, and raised a mound

of stone around post, from which

↓ a Juniper 6 ins. diam. br. N. 48° E. 103 lbs. dist
marked T. 4 S. R. 30 E. S. 6 B. 1.

a Juniper 4 ins. diam. br. S. 33° W. 32 lbs. dist
marked T. 4 S. R. 29 E. S. 12 B. 1.

Exterior S. 4 S. R. 29 E. continued

Lains

A Juniper 5 ins. diam. br. N. 11° W. 124 lbs. dist
marked S. 4 S. R. 29 E. S. 1. B. T.

Land mountainous & broken
& precipitous.

Soil poor & rocky
No timber.

North bet. Secs. 1 & 6.

Tax. 12° 30' E.

21.85 Rocky gulch 20 lbs wide come S. E
ascend steep side of high ridge.

40.00 Set a Granite stone 14 x 8 x 6 ins.
thrus. in the ground for 1/4 Sec.

br. marked 1/4 on W. face
and raised a mound of stone
alongside, from which a

Juniper 6 ins. diam. br. N. 39 1/2° E. 164 lbs dist.
marked 1/4 S. B. T.

Exteriors N. 4 S. R. 29. E. continued

chains.

- 41.30 Top of high mountain ridge,
700 to 800 ft. high, extending E.
- 50.00 Rocky gulch course N. E.
- 61.00 Ridge extending E.
- 65.00 Gulch 25 lbs wide course E.
- 68.60 Ridge (low rocky ridge bet. high
ones)
- 71.75 Rocky gulch 20 lbs wide course E.
- 80.00 Set a post $4\frac{1}{2}$ ft long, 4 ins. square,
with marked stone 12 ins. in
the ground, for cor. to Sps.
3 x 4 S. R's 29 x 30 E. marked
N. 3 S. S. 31 on N. E.
R. 30 E. S. 6 on S. E.
N. 4 S. S. 1 on S. W. and
R. 29 E. S. 36 on N. W. faces, with
6 notches on each edge, and
raised a mound of stone 3 ft.
high around post, from which

Exteriors. S. 4 S. R. 29 E. continued

chains

a Juniper 24 in. diam. ⁴³ S. 45 $\frac{1}{2}$ W. 238 lb. dist.
marked S. 4 S. R. 29 E. S. 35. B. 1.

This is on top of high ridge,
extending E. there are some
minors Prospect Holes, a
short dist. S. + West.

Land Mountainous, broken &
precipitous,

Soil rocky & poor.

No timber.

Feb 4. 1882.

Exterior T. 4 S. R. 29 E. continued

General Description

Range line between R's 29 & 30 E. T. 4 S. passes over a rugged mountainous surface, very precipitous in places.

The soil along the line, is poor & stony, but along the San Francisco River there are patches of good land around Clifton & above, above Clifton the land along the river is mostly taken up as placers and a Hydraulic Co. at Oroville & above are making extensive preparations, to

Exteriors N. 4 S. R. 29 E. continued

chains

wash out gold

The Copper Mines, of the
Longfellow Mining Co.
etc. are several miles W.
of this line.

Theodore H. White
U. S. Dep. Surveyor.

South Bdy

Exterior Boundaries N. 3 S. R. 29 E.

chains

From the Cor. to Sp. 3 + 4 S.
R. 29 + 30 E. just established

by rule, ^{9 mm}

West ^{on true line} bet. Secs. 1 + 36

Var. $12^{\circ} 30' E.$

as per Solar Compass

4.00

Set volcanic rock $12 + 8 + 7$ ins.

8 ins. in the ground, for $\frac{1}{4}$ Sec.

cor. marked $\frac{1}{4}$ on N. face,

dug pits $18 + 18 + 12$ ins. E + N.

of stone $5\frac{1}{2}$ ft. dist. and

raised a mound of earth $1\frac{1}{2}$

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

80.00

Set volcanic rock $13 + 9 + 6$ ins.

8 ins. in the ground, for cor. to

Secs. 1. 2. 35 + 36. marked

with 1 notch on E + 5 notches

on N. edges, dug pits $18 + 18 + 12$

ins. in each sec. $5\frac{1}{2}$ ft. dist.

Exteriors N. 3 S. R. 29 E. continued

chain

and raised a mound of earth
2 ft. high, 4 1/2 ft. base alongside,
Land mountainous, ascending
very steeply to W. on rocky
mountain side,

Soil worthless

No timber

It is not surveyable further
West.

February 4, 1882.

Exteriors N. 3 S. R. 30 East.

From the cor. to Sps 3 & 4 S.
Rs. 29 & 30 E. just recently
established by me I run
East on a true line, bet. Secs. 6 & 31.

Var. $12^{\circ} 30' E.$

13.85 Trail course N. comes from the
S. E. & passes through a low

Exteriors N. 3 S. R. 30 E. continued

chains

place, in high ridge, S. of the line,
15.50 Bottom of descent & gulch 2000
wide course N. of E.

40.00 Set a granite stone 15 + 9 + 6 ins.
10 ins. in the ground, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face,
and raised a mound of stone
3 ft high, alongside, from which
a Juniper 24 ins. diam. br. S. 85° E. 445 lbs. dist.
marked $\frac{1}{4}$ S. B. S.

a Double Plum tree stand 3 chs E of the Juniper

58.65 Trail course S. E.

80.00 Set a Porphyry rock 16 + 13.5 ins.
10 ins. in the ground, for

to Secs. 5, 6. 31 + 32
cor. marked with 5 notches
on E. & 1 notch on N. edge,

and raised a mound of
stone ^{3 ft high} alongside, from which
a Juniper 12 ins. diam. br. N. 48 $\frac{1}{4}$ ° W. 179 lbs. dist.
marked N. 3 S. R. 30 E. S. 31 B. S.

Exteriors T. 3 S. R. 30. E. continued

chains

Land mountainous,
Soil poor.
No timber of any consequence.
This mile runs along N. slope
of high ridge, making down
from the Mountain Range
to West 700 to 800 ft high,
extending E to River.

East. on true line bet. Secs. 5732
Corr. $12^{\circ} 30' E.$

- 13.73 Edge of high bluff 300 ft. high
overlooking San Francisco
River, bottom. A mild mound
of stone 2 ft. high, with pole
in center for witness point.
- 16.00 Descend into River Bottom
- 21.00 Right bank San Francisco

Exterior N. 3 S. R. 30. E. continued

chains

- River course S. W. Set post for witness point. Set flag on line on opposite side measure base, 100 ft N. of flag from end of which flag bears S. 52° E. therefore dist. 1.28 chs. or
- 22.28 To left Bank Set witness post.
- 24.00 Point alongside of trail where I set a post for witness point, from which a Cottonwood along river 20 ins. diam. br. N. $62\frac{3}{4}^{\circ}$ W. 166 lbs dist. a Cabin S. 18° E. about 10 chs dist. This cabin is a short distance above where a ditch is cut through a point of rocks on E. side of river.
- 25.30 Leave bottom & ascend
- 36.40 Top of slope & descend into break
- 40.00 Set a porphyry rock $18 \times 12 \times 6$ ins. 12 ins. in the ground, for $\frac{1}{4}$

Exteriors N. 3 S. R. 30 E. continued

chains

sec. cor. marked $1/4$ on N. face,
and raised a mound of stone
alongside, from which

a Juniper 12 ins. diam. br. N. 87° E. 43 lbs. dist.
marked $1/4$ S. B. T.

a Juniper 12 ins. diam. br. S. 45° E. 43 lbs. dist.
This cor. is in broken ground
just S. of deep rocky gulch
running N. of W.

50.00 Descend into deep rocky gulch
course N. of W. and ascend again.

80.00 Set a porphyry rock $12 \times 10 \times 7$ ins.
8 ins. in the ground, for cor. to
Secs. 4, 5. 32 & 33, marked
with 4 notches on E & 2 notches
on W. edges, dug pits $18 \times 18 \times 12$ ins.
in each sec. $5 \frac{1}{2}$ ft. dist. and
raised a mound of earth $1 \frac{1}{2}$ ft
high, $4 \frac{1}{2}$ ft. base alongside,

Exteriors N. 3 S. R. 30 E. continued

chains

Land mountainous, broken
and in places precipitous.

There is a little good land
along river bottom, where
line crosses, otherwise it is rocky
& poor.

No timber of any consequence.

East on true line, bet. Secs. 4 & 33.

Var. $12^{\circ} 30' E.$

Ascending steeply E.

40.00 Set a porphyry rock $13 + 7 + 6$ ins.
8 ins. in the ground for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ on N. face,
dug pits $18 + 18 + 12$ 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 along side.

Exteriors N. 3 T. R. 30 E. continued

chains
80.00

Set a porphyry rock $14 \times 8 \times 5$ ins. 10 ins. in the ground for cor. to Secs. 3. 4. 33 & 34. marked with 3 notches on E & W. edges, dug pits $18 \times 18 \times 12$ ins. in each sec. 5 ft. dist. and raised a mound of earth 2 ft. high, $4 \frac{1}{2}$ ft. base alongside.

Land mountainous & broken, & precipitous,

Soil poor.

No timber.

Further E. the line is not surveyable

February 6. 1882.

Exterior T. 3 S. R. 30 E. continued

General Description

The N. Boundary of T. 4 S.
R. 30 E. or so much of it
as I surveyed lies on a
mountainous, very rugged
& in places precipitous
surface,

There is a little good land
along the river, where the
line crosses, otherwise it is
poor & stony,

The land along the river
is considered more valuable
for placer mining, than for
any other purpose.

Further E. than the line
runs, the country is worthless
& not surveyable

Theodore H. White
U. S. Dep. Surveyor.

BOOK 1589 95
South Bdy

Exterior Boundaries N. 4 S. R. 30 E.

chains

From the Cor. to Sps. 4 + 5 S.
Rs. 29 + 30 E. recently established
by me, I run East
on a true line, bet. Secs. 6 + 31.
Var. $12^{\circ} 30' E$,
as per Solar Compass.

- 14.90 Rocky gulch 20 lbs wide course S. E'
22.00 Descend from Bluff Bank into
River Bottom
25.24 Right Bank San Francisco
River course S. W. set post for
witness point, set flag on
opposite ~~side~~ ^{side}, measure base
line 100 lbs S. from the end
of which flag brs N. $57^{\circ} 33' E$!
therefore dist. 1.26 chs. or
26.50 To left Bank, set witness post.
27.00 Road to Clifton course N.
36.00 Ascend very steep slope

Exteriors. T. 4 S. R. 30 E. continued

chains

40.00 Set a quartzite rock $12 \times 8 \times 6$ ins. 8 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 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.

48.00 Top of high ridge extending N. W.

61.00 High ridge 500 to 600 ft high extending N. W.

64.00 Rocky gulch course N. W.

73.60 Ridge 600 ft. high, course N. W.

80.00 Set a quartzite rock $14 \times 10 \times 6$ ins. 10 ins. in the ground, for. cor. to Secs. 5, 6, 31 & 32, marked with 5 notches on E. & 1 notch on W. edges, &

Exteriors, T. 4 S. R. 30 E. continued

Chains

raised a mound of stone
 alongside, from which
 a Juniper 14 ins. diam. to N. 30° E. 70 lbs dist.
 marked T. 4 S. R. 30 E. S. 32 B. 1.

a Juniper 14 ins. diam. to N. 42° W. 144 lbs dist.
 marked T. 4 S. R. 29 E. S. 31 B. 1.

Land mountainous, broken
 & precipitous.

Soil poor & stony.

No timber.

East on true line, bet. Secs. 5 & 32
 Var. 12° 30' E.

- 9.60 Ridge extending N. W.
- 21.25 Rocky Gulch come N. W.
- 25.00 Ridge extending N.
- 31.50 Ridge extending N.
- 33.75 Gulch come N.

Exterior N. 4 S. R. 30 E. continued

chains

- 37.00 Ridge extending N.
- 40.00 Set a granite 12 + 8 + 5 ins. 8
ins. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ on N.
face, & raised a mound of
stone alongside, from which
a Juniper 6 ins. diam. br. S. 35° W. 12 lbs. dist.
marked $\frac{1}{4}$ S. B. T.
- a Juniper 4 ins. diam. br. N. 75° W. 15 lbs. dist.
marked $\frac{1}{4}$ S. B. T.
- 46.70 Gulch course N.
- 51.50 Ridge course N.
- 57.00 Ridge course N.
- 69.00 Ridge course N.
- 80.00 Set a granite ^{stone} 14 + 9 + 6 ins.
10 ins. in the ground, for cor. to
Secs. 4, 5, 32 + 33. marked,
with 4 notches on E & 2 notches
on W. edges, and raised a

Exterior T. 4 S. R. 30 E. continued

Chairs

wound of stone alongside,
from which a Juniper

6 ins. diam. br. S. 57° E. 22 lbs dist
marked T. 5 S. R. 30 E. S. 4 B. T.

a Juniper 6 ins. diam. br. S. 62½° W. 14 lbs. dist.
marked T. 5 S. R. 30 E. S. 5 B. T.

a Juniper 5 ins. diam. br. N. 60° W. 57 lbs dist
marked T. 4 S. R. 30 E. S. 32 B. T.

Land mountainous over a
succession of ridges,
Soil poor

Scattering Juniper.

on a true line

East, bet^w Secs. 4 & 33.

Var. 12° 30' E.

21. 16 Road from Silver City to
Clifton course N. W.

4000 Set a quartzite 13 x 8 x 7 ins.

Exteriors S. 4 S. R. 30. E. continued

chains

8 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 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.

Very broken

8000 Set a quartzite rock $14 \times 10 \times 6$
 ins. 10 ins. in the ground,
 for cor. to Secs. 3, 4. 33×34
 marked with butches
 on E & W. edges, dug pits
 $18 \times 18 \times 12$ ins. in each sec.
 $5\frac{1}{2}$ ft. dist., and raised a
 mound of earth $2\frac{1}{2}$ ft. high
 $4\frac{1}{2}$ ft. base along side.
 Land mountainous & broken,
 Soil poor.

South Bay

BOOK 1589

Exterior Boundaries. T. 7 S. R. 31 E.

No timber.

Further E. the land is
worthless & not surveyable.

February. 7. 1882.

From the Cor. to Tps 7 & 8
S. R's 31 & 32 E. recently
established by me, from
West on true line bet. Secs. 1 & 36
Cor. 13° E.

As per Solar Compass

40.00 Set a sandstone $12 + 12 + 4$ ins.
8 ins. in the ground, for $1/4$
Sec. cor. marked $1/4$ on N.
face, and raised a mound
of stone alongside. Pits
impracticable.

54.50 Enter flat course S. W.

Exterior N. 7 S. R. 31 E. continued

Chairs

61.10 Dry wash course S. W.

63.53 Leave wash

71.90 Leave flat & ascend broken surface.

80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for Cor. to Secs. 1, 2, 35 & 36, marked N. 7 S. T. 36. on h. E., R. 31 E. S. 1 on S. E.

N. 8 S. 2 on S. W. and

S. 35 on N. W. faces, with 1 notch on E. & 5 notches on N. edges, and raised a mound of stone ^{around} ^{post.} ~~along~~ side

↓ Pits impracticable.

Land broken

Soil 2^d & 3^d rate

No timber.

Exterior S. 7 S. R. 31 E. continued

chains.

West on true line bet. Secs. 2 & 35.

Var. 13° E.

- 11.00 Foot of high mesa & ascend
- 18.23 Top of table land extends S. W.
- 28.00 Descend from table land
- 34.00 Bottom of descend
- 40.00 Set a sandstone 12 x 12 x 4 ins. 8 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone alongside, Pits impracticable.
- 78.20 Dry Wash 20 lks wide course S. W.
- 80.00 Set a post 4 ft. long, 4 ins. square, with marked stone 12 ins. in the ground, for cor. to Secs. 2, 3, 34 & 35, marked S. 7 S. S. 35 on N. E. R. 31 E. S. 2 on S. E. S. 3 on S. W. and

Exterior S. 7 S. R. 31 E. continued

S. 34 on N. W. faces, with 2
notches on E & 4 notches on
W. edges, and raised a mound
of stone around post.

Land broken

Soil 2^d + 3^d rate

No timber.

West on a true line bet. Secs.
3 + 34.

Var. 13° E.

16.65 Road from Silver City to
Clifton course N. W.

4000 Set volcanic rock 12 x 12 x 8
ins. 8 ins. in the ground,
for 1/4 sec cor. marked 1/4
on N. face, and raised a
mound of stone along side

Exterior S. 7 S. R. 31 E. continued

chains

Pits impracticable.

- 75.00 Descend into Gila Bottom
- 77.50 Bottom extending N. W.
- 80.00 Set a post 4 ft. long 4 ins. diam. with marked stone, pins, in the ground, for Cor. to Sec. 3. 4. 33 & 34. marked -
- S. 7 S. S. 34 on N. E.
- R. 31 E. S. 3 on S. E.
- P. 8 S. 4 on S. W. and
- S. 33 on N. W. faces, with 3 notches on E & W. edges, dug pits 18 x 18 x 12 ins. E & W. ^{in each sec.} of post, 5 1/2 ft. dist. and raised a mound of earth 2 ft. high 4 1/2 ft. base around post, from which an oak 4 ins. diam. br. N. 13 1/2 E. 106 lbs dist. marked S. 7 S. R. 31 E. S. 34 B. P.
- a Cottonwood 15 ins. diam. br. S. 13 1/2 E. 34.9 lbs dist. marked S. 8 S. R. 31 E. S. 3 B. P.

Exteriors S. 7 S. R. 31 E. continued

chains

Land broken & descending h. E.
 Good soil on W. end in
 Bottom.

Cottonwood, Willow & Ash
 along River.

West on a true line, bet. Secs. 4 & 33.

Var. $12^{\circ}40' E.$

as per Solar Compass

5.77 Right Bank Gila River

at witness post, set flag
 on line on opposite side &

measure base 100 lbs north
 from end of which flag is.

S. 76 $\frac{1}{2}$ W. therefore dist. 4.14 chs. or.

9.91 To left Bank at witness cor.

16.75 Leave Bottom & ascend

29.00 Dry wash come S. E.

Exteriors S. 4 S. R. 31 E. continued

chains

31.50 Leave Wash

35.60 Rocky gulch course N. E.

40.00 ^{at top of} high table land

Set lava rock 18 + 13 + 7 ins.

12 ins. in the ground, for 1/4

Sec. cor. marked 1/4 on

N. face, and raised a

mound of stone alongside

Pits impracticable.

80.00 Set a lava rock 10 + 8 + 7 ins.

7 ins. in the ground, for cor.

to Secs. 4, 5, 32 + 33, marked

with 4 notches on Ex 2

notches on W. edge, and

raised a mound of stone

alongside, Pits impracticable.

Land broken after leaving bottom

Some good soil in Bottom, then

stony & 3^d rate.

Some Cottonwood & Willow along river.

Exteriors N. 7 S. R. 31 E. continued

Chains

West on true line bet. Secs. 5 & 32

Var. $12^{\circ}40' E.$

30.00 Pass over S. Point of ridge extending N. E. & S. W.

38.00 Enter flat extending N. E.

40.00 Set volcanic rock $18 \times 12 \times 6$ ins. 12 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 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.

80.00 Set a post 4 ft. long 4 ins. square, with marked stake, 12 ins. in the ground, for cor. to Secs. 5, 6, 31 & 32, marked N. 7 S. S. 32 on N. E. R. 31 E. S. 5 on S. E.

Exterioro T. 7 S. R. 31 E. continued

Chains

S. 6 on S. W. and
 S. 31 on N. W. faces, with
 5 notches on E + 1 notch on
 W. edges, dug pits 18 x 18 x 12
 ins. in each sec. 5 ft. dist.
 and raised a mound of
 earth 2 ft high, 4 1/2 ft. base
 around post.

Land broken & then flat
 on W. end -

Soil 2^d & 3^d rate
 no timber.

West on true line bet. Secs. 6 & 31.
 Var. 12° 40' E.

11.00 Ascend ridge

18.00 Top of ridge course N. E.

25.25 Descend

110
 Exterior N. 7 S. R. 31 E. continued

chains

- 29.00 Bottom
 31.05 Dry wash 25 lbs wide course N. E.
 34.43 Road from Pueblo Viejo to Upper
 Gila course S. then S. E.
 36.57 Ascend steep slope
 40.00 Set a post 2 ft. long, 3 ins.
 square, with marked stone,
 12 ins. in the ground, for
 1/4 sec. cor. marked 1/4
 S. on N. face, and raised
 a mound of stone, along-
 side, Pits impracticable.
 Ascend.
 47.00 Top of rocky Bluff
 extending N. E. & S. W.
 50.00 Descend steeply from high hill.
 59.50 Bottom & enter Cañon course N. E.
 65.50 Dry Wash 40 lbs wide course N. E.
 78.65 Set a post 4 1/2 ft. long 4 ins.

Exterior N. 7 S. R. 31 E. continued

Chairs

square, with marked stone,
12 ins. in the ground, for cor.
to Tps. 7 & 8 S. Rs 30 & 31 E.
marked N. 7 S. S. 31 on N. E.

R. 31 E. S. 6 on S. E.

N. 8 S. S. 1 on S. W. and

R. 30 E. S. 36 on N. W.

faces, with 6 notches on
each edge, and raised a
mound of stone around
post, from which

a Juniper 24 ins. diam. br. h. 48 1/2' E. 6.15 lbs diet
marked N. 7 S. R. 30 E. S. 31 B. S.

I allow 1.35 lbs for converg-
ency at this point, it is about
4 chs S. of road & near N.
base of rocky hill. The road
comes from Pueblo Viejo and
forks about 1/4 mile N. E.

Exteriors N. 7 S. R. 31 E. continued

of here, one branch to Clifton
& the other to Upper Gila.
Land very broken & rugged.
Soil poor. & rocky
No timber.

February 20. 1882.

Exteriors N. 7 S. R. 31 E. continued

General Description

The N. Boundary of S. & S. R. 31 E. passes over a broken surface for the most part, very rough in places. There is some good land along the Gila Bottom, where the line crosses.

There is no timber of any consequence.

Theodore F. White
U. S. Dep. Surveyor.

South Bdy

Exterior Boundaries N. 8 S. R. 32 E.

chain

From the Cor. to Sps 8 + 9 S.
Rs 31 + 32 E. recently est-
ablished by me, Iron
East on true line, bet. Secs. 6 + 31
Var. $12^{\circ} 30' E$

as per Solar Compass.

4000 Set a lava rock 13 + 7 + 5 ins.

8 ins. in the ground for $\frac{1}{4}$ sec
cor. marked $\frac{1}{4}$ on N. face,
dug pits 18 + 18 + 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,

8000 Deposited a charred stake, 12
ins. in the ground, for cor. to
Secs. 5. 6. 31 + 32. dug pits 18 + 18 + 12
ins. in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth 2 ft

Exterior S. & S. R. 32' E. continued

chains

high, 4 1/2 ft. base over it.

In S. E. pit drove a stake
2 ins. square, 2 ft. long, 12 ins. in
the ground marked.

S. & S. S. 32 on N. E.

R. 32 E. S. 5 on S. E.

S. 6 on S. W. and

S. 31 on N. W. faces, with 5
notches on E & 1 notch on
W. edges, ~~as per~~

I made no allowance for
convergence as there is no
probability of the land N. & S.
of the Gila Bottom, ever
being surveyed along this Range.
Land mostly flat Soil
partly good
No timber.

Exteriors N. & S. R. 32. E. continued

chains

Cast on true line bet. Secs. 5 & 32

Var. $12^{\circ}30' E.$

- 4000 Deposited a charred stake 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. dug 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 over it. In E. pit drove a stake $2\frac{1}{2}$ ft. long 2 ins. square, 12 ins. in the ground, marked $\frac{1}{4}$ S. on N. face.
- 8000 Set a lava rock $15 \times 10 \times 7$ ins. 10 ins. in the ground, for cor. to Secs. 4, 5, 32 & 33, marked with 4 notches on E & 2 notches on W. edges, dug pits $18 \times 18 \times 12$ ins. in each sec. $5\frac{1}{2}$ ft. dist. and raised a mound of earth $2\frac{1}{2}$ ft. high, $4\frac{1}{2}$ ft. base alongside. Sand descending a little N.

Exterior N. & S. R. 32 E. continued

chains

Some good Soil
No timber.

East on a true line bet. Secs. 4 & 33.

Var. $12^{\circ} 30' E.$

- 4000 Deposited a charred stake, 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. dug pit 18 x 18 x 12 ins. E & W. of cor. 5 ft. dist. and raised a mound of earth 1 ft. high 3 ft. base over it. In E. pit drove a stake 2 ft. long, 2 ins. square, 12 ins. in the ground marked $\frac{1}{4}$ S. on N. face.
- 8000 Set a post 4 ft. long, 4 ins. square with marked stone, 12 ins. in the ground, for cor. to Secs. 3, 4, 33 & 34 marked N. & S. S. 34 on N. E.

Exterior N. & S. R. 32 E. continued

chains

R. 32 E. S. 3 on S. E.
 S. 4 on S. W. and
 S. 33 on N. W. faces, with 3
 notches in 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 4 ft. high 4 1/2 ft. base
 around post - from which
 a Cottonwood 30 ins. diam. bn. N. 16 3/4° E. 690 lb dist.
 marked N. & S. R. 32 E. S. 34 B. P.
 Land descending N.
 Some good soil.
 No timber.

East on true line bet. Secs. 3 & 34
 Var. 12° 30' E.

40.00 Set a post 4 ft. long, 3 ins. square,
 with marked stone 12 ins. in dia.
 on the ground, for 34 sec. cor. marked

Exteriors N. & S. R. 32 E. continued

Claims

$\frac{1}{4}$ S. on N. face, dug pits 18+18+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.

64.50 Left Bank of Gila River and
 Bend to S. Run along River.

77.50 Leave Bank of river coming from
 N. E.

79.01 Intersect the Boundary line
 between Arizona & New
 Mexico 54 chs South of the
 Astronomical Point along
 road from Silver City to
 Clifton 296.59 miles on said
 Boundary line commencing on
 the N. E. cor. of the Perry, and
 which point is marked -

Exterior N. & S. R. 32 E. continued

Chairs

at the Point of Intersection
 Is set apart. $4\frac{1}{2}$ ft. long, 4 in.
 square, with marked line 12
 in. in the ground, marked
 N. & S. S. 36 on N.

N. M. on E.

N. 9 S. S. 1. on S.

R. 32 E. C. C. Ariz. on W.
 from which

a Cottonwood 24 in. diam. br. N. 38 E. 83 lbs. dist.
 marked N. 8 S. R. 32 E. S. 34 on B. T.

a Cottonwood 36 in. diam. br. S. 27 E. 42 lbs. dist.
 marked N. 9 S. R. 32 E. S. 3 B. T.

a Cottonwood 30 in. diam. br. S. 13° W. 27 lbs. dist.
 marked N. 9 S. R. 32 E. S. 3. B. T.

a Cottonwood 10 in. diam. br. N. 10° W. 50 lbs. dist.
 marked N. 8 S. R. 32 E. S. 34. B. T.

Land flat

Some good soil along river.

Exterior S. & S. R. 32 E. continued

Cottonwood & Willow along
Bottom

February 21. 1882.

General Description

The S. Boundary of S. & S.
R. 32 E. passes over a smooth
surface, along the S. ^{side} of the
Gila River,

There is some good land
along the Bottom, and
Cottonwood and Willow
timber along the River

Theodore F. White
U. S. Dep. Surveyor.

South Bdy

Exterior Boundaries. N. & S. R. 31 E.

chains

From the Cor. to Tps 8 & 9 S.
R. 31 & 32 E. recently established
by me, I run.

^{West} East on true line bet. Secs. 1 & 36
Var. $12^{\circ} 30' E.$

40.00 Set volcanic rock $12 \times 8 \times 6$ ins.
8 ins. in the ground for $\frac{1}{4}$ Sec.
Cor. marked $\frac{1}{4}$ on N. face, dug
pit $18 \times 18 \times 12$ 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 Set volcanic rock $13 \times 9 \times 5$ ins.
8 ins. in the ground, for cor. to
Secs. 1, 2, 35 & 36. marked with
1 notch on E & 5 notches on W.
edges, dug pits $18 \times 18 \times 12$ ins.
in each sec. $5\frac{1}{2}$ ft. dist. and
raised a mound of earth $1\frac{1}{2}$ ft.
high, $4\frac{1}{2}$ ft. base, alongside.

Exterior. N. & S. R. 31 E. continued

chains

Land descending N. E.
Soil good + 2^d rate
No timber.

West on a true line bet. Secs. 24 & 35
Var. $12^{\circ} 30'$ E.

4000 Set volcanic rock $14 \times 7 \times 6$ ins.
10 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. Ex 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.

8000 Set volcanic rock $15 \times 8 \times 6$ ins.
10 ins. in the ground, for cor. to
Secs. 2, 3, 34 & 35. marked
with notches on Ex 4 notches
on W. edges, dug pits $18 \times 18 \times 12$ ins.

Exterior S. & S. R. 31 E. continued

chains

in each sec. $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth $2\frac{1}{2}$ ft. high
 $4\frac{1}{2}$ ft. base along side.
 Land uneven & ascending S.W.
 Soil 2^d rate
 No timber.

West on a true line bet. Secs.
 3 & 94.

Var. $12^{\circ} 30' E$.

40.00

Set volcanic rock $14 \times 8 \times 6$ ins.
 10 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 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.

80.00

Set volcanic rock 13×9.5 ins.
 8 ins. in the ground. for cor. to

Exteriors T. 8 S. R. 31 E. continued

Secs 3, 4, 33 + 34, marked with
3 notches on E + W. edges, dug pits
18 + 18 + 12 ins. in each sec. 5 1/2 ft.
dist. and raised a mound of
earth 2 ft. high, 4 1/2 ft. base
along side,
Land uneven, rocky + barren
No timber.

Further West the land is not
surveyable.

February 24, 1882.

General Description

The foregoing 3 miles pass
over an uneven surface,
for the most part, there

Exterior N. & S. R. 31 E. continue

is a little good land on
the first mile, on the E. side.
Then it becomes poor, and
further West, than the
survey extends it is un-
surveyable.

There is no timber along
line.

Theodore F. White
U. S. Dep. Survey

List of Names.

For Exterior

A List of the Names of Individuals employed by

Theo. J. White U. S. deputy

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surveyor, to assist in running, measuring, or marking the lines
 and corners described in the foregoing Field Notes of the survey
 of the Exterior lines of the East boundaries, of
 Tps. 6, 7, 8, 9, & 10 S. Range 31 E. and Tps
 3, 4 & 5 S. Range 29³⁰ East, & S. Boundary
 of Tps 4 S. 30 E. & 7 S. 31 E. & S. 31 & 32 E.
 Gila & Salt River Base &
 Meridian

G Showing the respective capacities in which they acted.

J. H. McClure Chainman.

J. O. Ford Chainman.

John Blake Axeman.

Saml Waukelt. Flagman.

* Geo. J. Wyatt Moundman
 Jos. Schwarz Moundman

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Final Oath of Assistants.

BOOK 1589

We hereby certify that we assisted Geo.

P. White U. S. Deputy Surveyor, in surveying

all those parts or portions of the Exterior lines of

the East boundaries of Tps 46, 7, 8, 9

S. Range 31 E. and Tps 3, 4, & 5 S. Range

East. & S. Boundary of Tps 4 S. 30 E. & 7

31 E. & S. 31 & 32 E. G. & S. R. Bee

& Meridian

as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said Surveyor

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.

A. H. McClure Chairman

J. O. Ford Chairman

John Blakely Axeman.

Amos Kuntz Flagman.

Jos. Schwarz Moundman.

Sworn to and subscribed before me, this 6th day of

March, 1882

Paul Ricc
Notary Public
Covington, Arizona

Theo. P. White

Deputy Surveyor, do solemnly swear that in pursuance of
instructions received from John Wasson, United States
Surveyor-General for Arizona hereby

188, I have well, faithfully

and truly, in my own proper person, and in strict conformity
with the instructions furnished by the United States Surveyor-
General for Arizona, the Surveying Manual, and the laws of the
United States, surveyed all those parts or portions of

the Exterior lines of the East Boundaries
of Tps 6, 7, 8, 9 & 10 S. Range 31 E. and
Tps 3, 4 & 5 S. Range 29³⁰ East, & S. Boundary
of Tps 4 S. 30 E. & 7 S. 31 E. & 8 S. 31 &
32 E. Gila & Salt River Base &
Meridian 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 Surveying Manual, printed instruc-
tions, the special instructions of the United States Surveyor-
General for Arizona, and in the specific manner described in the

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Ex

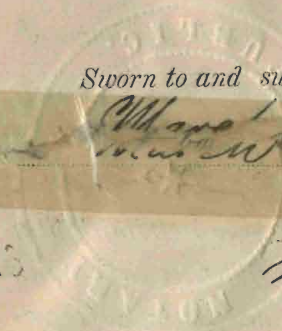
field notes, and that the foregoing are the true Field Notes of such survey, and should any fraud be detected I will suffer the penalty of perjury, under the provisions of an act of Congress approved August 8, 1846

Theodore F. White

U. S. Deputy Surveyor.

Sworn to and subscribed before me this 6th day of

March 1882



Paul Steen
Notary Public
County Arizona

BOOK 1589

U. S. Surveyor General's Office,
Tucson, Arizona. April 19, 1882

The foregoing Field Notes of the survey of the
North East boundary lines of Tps. 6. 7. 8. 9. 10 S.
E & Tps. 3. 4. 5 S. R. 29 + 30 E; South bound-
of Tps 4 S. R. 30 E, Tps. 7 S. R. 31 E. and
S S. R. 31 and 32 East

Gila and Salt River Base and Meridian, Arizona,
ted by Theodore F. White,
under his contract of the 14th day of
June, 1881, having been critically ex-
d and the necessary corrections and explanations
the said Field Notes and the surveys they de-
are hereby approved.

John Masson

Surveyor General.