

~~See Index~~

1631

Field Notes

OF THE SURVEY OF

The Coteriors of Twp. 1.243 S.

R 5 W.

1st part of contract.

2nd ^{see} parts for remainder.

1631

BOOK 1631

1631

Gila and Salt River Base and Meridian

ARIZONA.

By R. C. Powers D. S.

Under contract dated Oct 24 1872.

Survey commenced Dec 10th 1872.

Survey completed Dec 12th 1872.

1631

Field - Notes
 of Exterior Lines.
 Tps 1. 2. & 3 S. R 5 W.

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For preliminary and final
 oaths see Books for Gila & Salt
 River Base line, and Sp. & N.
 R. & W. respectively

Sections S. B. N. 2 S. R. 5 W. G. S. P. M.

Survey commenced December
 10th 1882 with a Burt's
 Patent Improved Solar
 Compass made by
 John Roach, of San Franc-
 isco, Cal, it was carefully
 examined and tested on
 the true Meridian in Tucson,
 and further tested and
 adjusted by me before
 commencing this Survey.
 at the Cor. of Secs 2 & 3 S. R. 5
 W. which corner
 was just established by me,
 I took the latitude and found
 it to be $33^{\circ}13'$ North.
 From this corner I ran
 West on a true line bet.
 Secs. 1 & 36.

S. B. T. 2 S. R. 5 W.

chain

Var. $13^{\circ} 54' E.$

4000

Set a Post 3 ft. long, 3 ins. sq. 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. 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.

70.30

Irrigating ditch 25 lbs wide course S. $30^{\circ} E.$

8000

Set a Post 4 ft. long, 4 ins. square with marked stone 24 ins. in the ground for cor. to Secs. 1, 2.

35 & 36. marked

T. 2 S. S. 36 on N. E.

R. 5 W. S. 1 on S. E.

S. 3 S. S. 2 on S. W. and

S. 35 on N. W. face, with

S. B. T. 2 S. R. 5 W.

Lains

1 notch on E. and 5 notches
on W. edges, from which
a Mesquite 10 in. dia. br. S. 45° E. 125 lbs dist.
marked S. 3 S. R. 5 W. S. 1 B. T.

A Mesquite 14 in. dia. br. S. 61° W. 210 lbs dist.
marked S. 3 S. R. 5 W. S. 2 B. T.

A Mesquite 11 in. dia. br. N 70° E. 65 lbs dist.
marked S. 2 S. R. 5 W. S. 36 B. T. and
raised a mound of stone around foot
no other tree within limits.

Surface level

Soil 1st rate

Timber Mesquite dense under-
growth of greasewood Arrowweed,
Catalpa Bush.

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

Var. $13^{\circ} 54' E.$

Exteriors S. B. T. 2 S.

chains

- 25.25 Road br N.S.
- 35.00 Leave Mesquite Enter low
Bottom 8 feet down
- 40.00 Set a Post 3 ft. long 3 in. sq. with
marked stone 12 in. in the ground
for $\frac{1}{4}$ sec. br. marked $\frac{1}{4}$ S. on
N. face, dug pits 18 x 18 x 12 in.
Ex 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.
from which a Cottonwood 14
in. dia. br. S. 14° W. 34 lbs dist. marked $\frac{1}{4}$ S. B. T.
- 67.50 Left Bank of Gila River br
N. W. & S. E. 61° Measure across.
- 71.68 Right Bank of River low
Banks deep water
- 80.00 Set a Post 4 ft. long, 4 in. sq.
24 in. in the ground for
br. 10 Secs. 2. 3. 34 + 35.

R. 5 W.

Chairs

marked T. 2 S. S. 35 on N. E.

R. 5 W. S. 2 on S. E.

T. 3 S. S. 3 on S. W. and

S. 34 on N. W. faces, with

2 notches on Ex 4 Notches on

W. edge, ^{dig pits 18" 18" 12" deep in each sec. 5 ft dist and raised a mound of} ^{capit 1/2 ft high 3 ft dia. each around post} from which

A Cottonwood 20 ins. dia. br. S. 34 W. 73 br. dist.

marked T. 3 S. R. 5 W. S. 3 B. T.

A Cottonwood 8 ins. dia. br. N. 71° W. 144 br. dist.

marked T. 3 S. R. 5 W. S. 34 B. T.

Surface level

Soil 1st & 2d rate

Trunks of Mesquite & Cottonwood

along River,

Thrive undergrowth of Arrow &

Greasewood Bush.

Exteriors S. B.

chains

West on a true line, bet. Secs.
3 & 34.

Var. $13^{\circ} 54' E$

40.00 Set a Post 2 ft. long 3 ins. square,
with marked stake 12 ins. in
the ground, for $\frac{1}{4}$ sec. Cor. marked
 $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 x 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.

61.00 Leave Cor Bottom & ascend
10 feet Enter Mesquite

80.00 Set a Post 4 ft. long, 4 ins. sq.
with marked stake 12 ins. in
the ground for Cor. 6 Secs.
3. 4. 33 & 34. marked
S. 2 S. S. 34 on N. E.
R. 5 W. S. 3 on S. E.

S. 2 S. R. 5 W.

Chain

S. 3 S. S. 4 on S. W. and
 S. 33 on N. W. faces, with
 3 notches on E. W. edge, dug
 pits 18x18x15 ins. in each sec.
 5/8 ft. dist. and raised a
 mound of earth 2 ft. high 4 1/2
 ft. base around Post.

Surface gently rolling.

Soil low Bottom 3rd rate

Mesquite land 1st Rate

Heavy undergrowth of Brush.

West on a true line, bet.

Secs. 4 & 33.

Var. 13° 54' E.

40.00

Set a Granite stone 20x18x10
 ins. 15 ins. in the ground, for
 1/4 sec. cor. marked 1/4 on N. face

Exteriors S. P.

darius

and raised a mound of stone
alongside from which
a Palo Verde 8 ins. dia. br. S. 10° W. 25 lbs dist.
marked 1/4 S. P. T.

A Palo Verde 4 ins. dia. br. N. 50° W. 30 lbs dist.
marked 1/4 S. P. T.

40.10 Dry wash 3 feet deep 80 lbs wide, course
N. 47° E. ascend Mesa br N. 10° W.

46.00 Top of Mesa 80 ft. high thence along
South end of same

80.00 ^{Set} A Malpaise 16 x 14 x 12 ins. 11 ins. in
the ground for Cor. to Secs. 4, 5. 32 x 39
marked with 4 notches on E & 2
notches on W edges, and raised
a mound of stone alongside, from which
a Palo Verde 10 ins. dia. br. S. 85° E. 80 lbs dist.
marked S. 3 S. P. 5 W. S. 4 B. T.

Surface broken Mesa land
high Peaks S. of line.

S. 2 S. R. 5 W.

Loins

Soil 4th rate
Scattering Palo Verde & Grease
wood Bush.

West on a true line bet. Secs.
5 & 32.

Var. $130^{\circ} 54' E$.

along S. end of Mesa

23.30 Descend from Mesa

26.33 Dry wash 60 ft. deep, 20 ft. wide come
South, ascend over S. end of Butte

40.00 Top of S. end of Butte Set a
Granite stone $24 \times 16 \times 8$ ins. 18
ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ on N. face, and
raised a mound of stone along-
side Pits impracticable
Descend

Exteriors S. B.

elains

- 56.55 Dry wash 60ft. deep. 120lbs wide
course S. 10° E.
- 76.00 Dry Wash 40ft. deep. 30lbs wide,
course S. 57° E. ascend
- 78.00 Top of Malpais Mesa high
Pitu Pks S. of line
- 79.76 Cañon 75ft. deep 60lbs wide course
N. 10° E.
- 80.00 Set a Malpais rock 20x14x12 in.
15 in. in the ground for cor. to
Sees. 5. 6. 31. 32. marked with
5 notches on E & 1 notch on W.
edges, dug raised a mound
of stone alongside Pit's dug
racticable
Surface rocky & nonuniform
Soil 4th rate
Scattering Palo verde & Grease-
wood Bush.

S. 2 S. R. 5 W.

chains

West on a true line bet. Secs.
6 & 31.

Var. $13^{\circ}54' E$

40.00 Set a Malpin rock $18 \times 12 \times 8$ 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 along side. Pit imp-
resticable

78.59 Allowing 1.41 chs for con-
vergence, set a Malpin rock
 $16 \times 12 \times 8$ ins. 11 ins. in the ground
for cor. to Tps 2 & 3 S. R. 5 & 6 W.
marked with 6 notches on each
edge, and raised a mound of
stone along side, Pit imp-
resticable, from which a
Palo verde pins. dia. ho. N 70° W. 2. rods
dist. marked S. 2 S. R. 6 W. S. 36 B. T.

Exterior S. B. T. 2 S. R. 5 W.

chain

Surface high. Mes a land
Soil 3rd rate
Dense greasewood & Pilewood
Brush.

Exteriors N. B. T. 2 S. R. 5 W.

Chain

From the Cor. to Sp. 2 + 3 S.

Rs 576 W. just now established
 1/4 sec. Cor. marked 1/4 on W.

Var. $13^{\circ} 54' E$

4000

Set a Malpais rock $12 \times 12 \times 10$
 ins. 8 ins. in the ground for
 1/4 sec. Cor. marked 1/4 on W.
 face, and raised a mound
 of stone along side, from which
 a Paloverde 5 ins. dia. br N. $42^{\circ} W$. 80 lbs. dist
 marked 1/4 S. B. T.

A Paloverde 3 ins. dia. br S. $46^{\circ} E$. 54 lbs. dist.
 marked 1/4 S. B. T.

8000

Set a Malpais rock $14 \times 10 \times 6$ ins.
 10 ins. in the ground for Cor. to Sec.
 25. 30. 31 + 36. marked with 5
 notches on N + 1 notch on S. edge,
 and raised a mound of stone along-
 side, from which

Exteriors N. B.

Series

a Paloverde 615. dia. In. N. 42° E. 22 lbs. dia.
 marked S. 2 S. R. 5 W. S. 30 B. T.
 Surface high Mesa land
 Soil 2d. rate
 Dense Greasewood & Cactus
 Scattering Paloverde.

North bet. Secs. 25 & 30.

Var. 13° 54' E.

- 4000 Set a Malpais stone 16 x 10 x 8 in.
 11 in. in the ground, for 1/4 sec.
 Cor. marked 1/4 on N. face, and
 raised a mound of stone
 alongside, Pit impracticable
- 8000 Set a Malpais 16 x 14 x 8 in. 11
 in. in the ground, for Cor. to
 Secs. 19, 24, 25, & 30. marked
 with 4 notches on N. & 2 notches

S. 2 S. R. 5 W.

chains

on S. edges, from which
 a Palo verde 6 in. dia. tr. h. 50° W. 221 lbs dist.
 marked P. 2 S. R. 6 W. S. 24 B. P.
 a Palo verde 5 in. dia. tr. h. 50° E. 181 lbs dist.
 marked P. 2 S. R. 5 W. S. 30 B. P.
 no other trees within limits.

Surface level

Soil 3^d rate

Some Greasewood & Cactus.

North bet. Secs. 19 & 24

Var. 13° 54' O!

- 5.00 Base of Malpais Butte
 28.00 Top of Butte & descend about
 150 ft. high.
 40.00 Set a Malpais 12 x 12 x 6 in. 8 in.
 in the ground for 1/4 sec. Cor.
 marked 1/4 on W. face, and

Exterior N. B.

chains

- 57.00 raised a mound of stone
alongside, Pits impracticable
Foot of Butte & high Mesa
- 71.20 Dry wash 2 ft. deep 8000 wide
course N. 81° E.
- 80.00 Set a Malpais 18x14x6 ins.
12 ins. in the ground for Cor.
to Secs. 13, 18, 19 & 24, marked
with 3 notches on N. S. edge,
and raised a mound of stone
alongside, Pits impracticable
Surface Rolling
Soil 3^d rate
Dense Greasewood & Cactus.

North bet. Secs. 13 & 18.

Var. 13° 54' E.

5.65 Road br. N. Et S. W. 34°

J. 2 S. R. 5 W.

chains

40.00

Set a Post 3 ft. long, 3 ins. sq. with marked stone 12 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on W. face, dug pit 18 x 18 x 12 ins. W. 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.

58.00

Dry Wash 2 ft. deep 80 lbs wide course N. 70° E.

71.76

Dry Wash 2 ft. deep. 80 lbs wide course N. 30° W.

77.80

Dry Wash 75 lbs wide to N. 30° E.

80.00

Set a Post 4 ft. long 4 ins. sq. with marked stone 12 ins. in the ground for cor. to Secs.

7. 12. 13 x 18. marked

S. 2 S. S. 7 on N. E.

R. 5 W. S. 18 on S. E.

Esterino N. 13.

Chains

R. 6 W. S. 13 on S. W. and
 S. 12 on N. W. faces, with 2
 notches on N & 4 notches on
 S. edges, dug pits 18x18x12 ins.
 in each sec. 5 1/2 ft. dirt. and
 and raised a mound of earth
 4 ft high 4 1/2 ft. base around
 post.

Surface level

Soil 2^d rateDense bateslaw & greasewood
 Brush.

North bet. Secs. 7 & 12

Var. 13° 54' E.

7.37 Dry wash 4 ft deep 20 lbs wide
 course E.

40.00 Set about 3 ft. long, 3 ins. sq.

S. 2 S. R. 5 W.

Chains

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

See cor. marked $\frac{1}{4}$ S. on
 dug pit 18 x 14 x 12 ins. 2 ft. of soil 5 ft. dirt and raised mound of
 earth 7 ft. high 3 ft. low ground part
 N. face, from which

Mesquite 8 in. dia. br. S. 42° E. 60 lbs. dist.
 marked $\frac{1}{4}$ S. B. P.

8000 Set a granite stone 18 x 14 x 12

ins. 12 ins. in the ground for
 cor. to Sec. 1.6. 7 x 12. marked
 with 1 notch on N & 5 notches
 on S. edges, and raised a mound
 of stone alongside from which
 a Mesquite 8 in. dia. br. S. 60° E. 23 lbs. dist.
 marked S. 2 S. R. 5 W. S. 7 B. P.

Simpson rolling.

Soil 2^d rate

Scattering Mesquite &

Dense Greasewood & Cat's
 claw Bunch.

Exteriors N. B.

chains

North bet. Secs. 1 & 6.

Var. $13^{\circ} 54' E!$

- 10.00 a Barrell 4 chs Enf Lime
- 11.40 Road course N. Et S W. 80°
- 40.00 Set a Post 3 ft. long 2 ins.
sq. 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 x 18 x 12 ins.
N. S. of post 5 $\frac{1}{2}$ ft. dist.
and raised a mound of
earth 1 $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$ ft. base
around post.
- 42.10 Dry Wash 4 ft. deep 15 lbs wide
course S. $34^{\circ} E!$
- 81.60 The East By of this Tp being
6 miles 1.83 in length I
set a Post 4 $\frac{1}{2}$ ft. long 4 ins.
square with marked

S. 2 S. R. 5 W.

chains

stone 12 in. in the ground
 for cor. to Tps 1 & 2 S. R. 5 & 6
 W. marked S. 1 S. S. 31 on N. E.
 R. 5 W. S. 6 on S. E.
 S. 2 S. S. 1 on S. W. and
 R. 6 W. S. 36 on N. W. face,
 with 6 notches on each edge,
 dug pits 24 x 18 x 12 in. length
 wise on each line N. S. Ex. W.
 of post 6 ft. dist. and raised
 a mound of earth 2 1/2 ft.
 high 4 1/2 base around post.
 Surface level
 Soil 2^d rate
 Scattering Mesquite &
 some buto claw & green
 wood brush

December 10th 1882

Exterior S. B.

chain

Before proceeding I made a change of 5 minutes in the latitude arc of my solar compass, by adding same to the reading previously given and at noon verified and correct same by observation on the sun, I tested instrument by screwing.

From the cor. to Tps 142 S. R. 576 N. just now established from East on a random line bet. said townships.

Var. $13^{\circ} 54' 8''$.

I set temporary corners at every 40 chs and find the township line to be

J. L. S. R. 5 W.

5 miles 78 chs 12 lbs long,
and the falling to be 12 lbs
North of bar to Tps 1 & 2 S.
Rs 4 & 5 W. The correction
for the true line therefore
will be 2 lbs S. & 1.88 lbs

West per mile and its course
will be N. $89^{\circ} 59' W.$

From the bar. to Tps 1 & 2 S.
Rs 4 & 5 W. on the Auxiliary
Meridian just ~~now~~ ^{recently} established
by me, I run West on
a true line bet. 1 & 36.

Var. $13^{\circ} 54' E!$

- 16.00 Foot of Mtn enter Valley
28.00 Top of Mountain 400ft high
ln N. Ex S. W. 30° Descend
39.00 Cañon course North ascend
40.00 Set a Granite stone 18x16x12

Exteriors S. B.

chain

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 along side, Pits
 impracticable.

48.00 Top of Mountain 40 ft. high
 In N. E. & S. W. descend

80.00 Set a Granite stone 18 x 14 x 8
 ins. 12 ins. in the ground for
 Cor. to Secs. 1, 2, 3, 5 & 36. marked
 with 1 notch on E & 5 notches
 on W. edge, and raised a
 mound of stone along side
 Pits impracticable
 Surface mountainous
 Soil 3rd rate
 Greasewood Bush.

N. 1 S. R. 5 W.

Lines

- 1895 West on a true line bet. Secs.
2 & 35. Var. $13^{\circ} 54' E$.
- 13.00 Base of Mtn and decided
dry wash 5 ft. deep, 12 lbs wide course N. $30^{\circ} W$.
- 36.00 Dry wash 6 ft. deep, 10 lbs wide
course S. $15^{\circ} W$.
- 40.00 Set a Post 2 ft. long 3 in. sq. with
marked stone 12 in. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on
N. face, dug pits $18 \times 18 \times 12$ in.
Ex W. of post 5 ft. dist and
raised a mound of earth $1\frac{1}{2}$
ft. high $3\frac{1}{2}$ ft. base around post.
- 48.00 Dry wash 8 ft. deep, 10 lbs wide
course N. $80^{\circ} W$.
- 80.00 Set a Post 4 ft. long 4 in. sq.
with marked stone 12 in. in
the ground for cor. to Secs.
2, 3, 34 & 35. marked
N. 1 S. S. 35 on N. E.

Exterior S. B.

chains

R. 5 W. S. 2 on S. E.
 T. 2 S. S. 3 on S. W. and
 S. 34 on N. W. faces, with
 2 notches on E. 4 notches
 on W. edges, dug pits $18\frac{1}{2} \times 12\frac{1}{2}$
 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.
 Sim face first 13 chs mount-
 ainous 3^d rate Soil
 67 chs level soil 1st rate
 Scattering Mesquite
 Dense Greasewood bush.

on a true line
 7.890 sq. Nest bet. Secs. 3 & 34.
 Var. $13^{\circ} 54' E$

T. 1 S. R. 5 W.

chains

28.00

Cross Road to N. E. S. W. 30°

4000

Set a Post 2 ft. long 3 ins. sq.
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. E. W. of
Post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft.

56.00

high $3\frac{1}{2}$ ft. base around post.
Descend 14 ft. into low Bottom

8000

Set a Post 4 ft. long, 4 ins. sq.
with marked stone 12 ins. in
the ground, for cor. to Sec.
3, 4. 33×34 , marked
S. 4 S. S. 34 on N. E.
R. 5 W. S. 3 on S. E.
A. 2 S. S. 4 on S. W. and
S. 33 on N. W. face, with

Exteriors S. B.

claims

3 notches on E' & W. edges, dug
 pits 18x18x12 ins. in each
 sec. 5/8 ft. dist. and raised
 a mound of earth ^{2 ft. high 4 1/2 ft. base} around
 post

Surface level

Soil 1st & 2^d rate

Scattering Mesquite
 dense Greasewood &
 bet. claw Bush.

7.89^{59'} West on a true line bet.

Secs. 4 & 33.

Var. 13° 54' E.

6.29 Left Bank of Gile River deep
 water and low Bank course
 S. 15° W.

10.90 Right bank of River High Bank

S. 1 S. R. 5 W.

Lains

40.00

Set a Post 3 ft. long 3 ins. sq. with marked stone 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on W face, dug pit 18 x 18 x 12 ins. E & W. of post 5 $\frac{1}{2}$ ft. dist. and raised a mound of earth $\frac{1}{2}$ ft. high 3 $\frac{1}{2}$ ft. base around post. Home of Powers & Webb Co S. 34° W. about 35 chs.

55.00

Irrigating ditch 200 ft. wide, to S. 18° W.

56.00

At Road to N E S. W 15°

62.43

Another Road to W S.

80.00

Set a Post 4 ft. long 4 ins. square, 24 ins. in the ground for cor. to Secs. 4, 5, 32 & 33, marked S. 1 S. S. 33 on N. E. R. 5 W. S. 4 on S. E.

Exteriors S. B.

chains

N. 2 S. S. 5 on S. W. and
 S. 32 on N. W. face, with
 4 notches on E. & 2 notches on
 W. edge, from which a
 Mesquite 12 in. dia. br. N. 40 E. 60 lb. dist.
 marked P. 1 S. R. 5 W. S. 33 B. P.

a Mesquite 10 in. dia. br. S. 50 E. 30 lb. dist.
 marked P. 2 S. R. 5 W. S. 4 B. P.

a Mesquite 10 in. dia. br. S. 81 W. 60 lb. dist.
 marked P. 2 S. R. 5 W. S. 5 B. P.

a Mesquite 8 in. dia. br. N. 45 W. 100 lb. dist.
 marked P. 1 S. R. 5 W. S. 32 B. P.

Surface level

Soil 1st rate

Timber Mesquite

Scuse Greasewood & Cateclaw

Bush

Some Sotterwood along River

N. 1 S. R. 5 W.

Lains

7.89³⁹ West on a true line bet.

Secs. 31 & 32.

Corr. $13^{\circ}54'E$

32.00 Leave timber.

40.00 Set a Post 3 ft. long 3 in. sq.
with marked stone 12 in. in
the ground, for $\frac{1}{4}$ sec. cor.

marked $\frac{1}{4}$ S. on N face, dug
pit 18 x 18 x 12 in. Ex 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

49.40 a Road in N. Ex S W. 60°

7 79.17 Dry wash 5 feet deep 10 ft. wide
course S. $10^{\circ}E$.

80.00 Set a Post. 4 ft. long 4 in. sq.
with marked stone 12 in. in
the ground for cor. to Secs.

5, 6, 31 & 32. marked

Exteriors S. B.

chains

N. 1 S. S. 32 on N. E.
 N. 5 W. S. 5 on S. E.
 N. 2 S. S. 6 on S. W. and
 S. 31 on N. W. faces, with
 5 notches on E & 1 notch on
 W. edge, dug pits 18 x 18 + 12
 ins. in each sec. 5' aft. dist.
 and raised a mound of
 earth 2 ft. high 4' aft. base
 around post.
 Surface level.
 Soil 1st rate
 Timber of Mangrove
 dense Greasewood &
 Cateclow brush.

289° 59' West on a true line bet.
 Secs. 6 & 31

S. 1 S. R. 5 W.

chains

Cor. $130^{\circ}54' E.$

40.00 Set a Post 3 ft. long 3 in. square, with marked stone 12 in. in the ground, for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ S. on N. face, dug pits 18 x 18 in. Ex W. of post 5 ft. dist. and raised a mound of earth 5 ft. high 3 ft. base around post.

78.12 The Cor. to Sps 1 & 2 S. R. 5 & 6 W.

Land rolling.

S'oil 2d rate

Use Greasewood & Citron
claw Brush.

Exterior W. 13.

chain

Having previously set a closing cor. for this T_p. 11 chs 75 lbs. East of the Standard cor. to T_ps 1 N. R_s 5 & 6 E. which is a Post 4 1/2 ft. long 4 ins square, with marked stone 12 ins. in the ground for closing cor. to T_po 1 S. R_s 5 & 6 W. marked C. C. S. 1 S. on S.

R. 5 W. S. 6 on E. and

R 6 W. S. 1 on W. faces, with
 Crotches on S. E & W. faces,
 dug pits 24 x 18 x 12 ins. cross-
 wise on each line S. E & W. of
 post 6 ft. dirt, and raised a
 mound of earth 2 1/2 ft. high
 4 ft. bare around post.
 from the cor. to T_po 1 N. R_s 5 & 6 W.
 Snow rim North on a

S. 1 S. R 5 W.

Series

random line bet said
Tps and at 6 Miles inter
sect the closing Cor. to
Tps 1 S. R. 5 W. Tpm
which Point Iron South
on a true line bet. Secs 126

Var. $130^{\circ} 54' E$

4000 Set a Malpais stone $14 \times 10 \times 6$
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

8000 Set Volcanic rock $16 \times 10 \times 8$
ins. 11 ins. in the ground for
cor. to Secs. 1.6. 7 \times 12. marked
with 1 notch on N \times 5 notches
on S' edges, and raised a
mound of stone alongside.

Exterior N. B.

chains

Pits impracticable.

Surface Rolling & rocky

Soil 2^d rate

Dense greasewood brush

South bet. Secs. 7 & 12

Var. $13^{\circ} 54' E.$

4000 Set a Post 3 ft. long, 3 in. square with marked stone 12 in. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. on W. face, dug pits 18 & 18 & 12 ins. N. & S. of post 5/8 ft. dist. and raised a mound of earth 1 1/2 ft. high 3 1/2 ft. base around post.

8000 Set a Post 4 ft. long, 4 in. square, with marked stone

J. 1 S. R. 5 W.

Chairs

12 ins. in the ground, for
Cor. & Secs. 7, 12, 13 & 18,
marked J. 1 S. S. 7 on N. E.
R. 5 W. S. 18 on S. E.
R. 6 W. 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' ft. dist.
and raised a mound of
earth 2 ft. high & 4' ft. base
around post.

Surface Rolling
Soil 2^d rate

Grease wood & Catclaw
Brush.

South bet. Secs. 13 & 18.

Exteriors W. B.

Chairs

Var. $130^{\circ} 54' E$.

4000 Set a Post 3 ft. long 3 ins. sq.
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. W.S.
at post $5\frac{1}{2}$ ft. dist. and raised
a mound of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. bare ground Post.

8000 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
S. 1 S. S. 18 on N. E.
R. 5 W. S. 19 on S. E.
R. 6 W. S. 24 on S. W. and
S. 13 on N. W. faces, with
3 watches on N.W. edge,
dug pits $18 \times 18 \times 12$ ins.

T. 1 S. R. 5 W.

chains

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.

Surface level

Soil 2^d rate

Scrub Greasewood & Cacti
Brush.

South bet. Secs. 19 & 24.

Cor. $130^{\circ}54' E$

40.00 Set a Post 3 ft. long 3 ins. sq.
with marked stone pin
in the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. or W. by
dug pits 18 & 18 & 12 ins. W.S.
of post $5\frac{1}{2}$ ft. dist. and
raised a mound of earth

Exteriors W. B.

Chains

1 1/2 ft. high 3 1/2 ft. base around post.

8000 Set a Post 4 ft. long 4 ins. sq. with marked stone 12 ins. in the ground, for Cor. to Secs. 19, 24, 25 & 30, marked N. 1 S. S. 19 on N. E.

R. 5 W. S. 30 on S. E.

R. 6 W. S. 25 on S. W. and S. 24 on N. W. faces, with 4 notches on N. & 2 notches on S. edges, dug pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft.

dist. and raised a mound of earth 2 ft. high 4 1/2 ft. base around post.

Surface level

Soil 2^d rate

Denise Greenwood & Cato clear
brush

S. 1 S. R. 5 W.

Lines

South bet. Secs. 25 & 30

Cor. $13^{\circ}54'E$

4000

Set a Post 3 ft. long, 3 ins. sq. 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 earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base around post

8000

Set a Post 4 ft. long 4 ins. sq. with marked stone 12 ins. in the ground, for Cor. to Secs. 25, 30, 31 & 36. marked S. 1 S. S. 30 on N. E. R. 5 W. S. 31 on S. E. R. 6 W. S. 36 on S. W. and S 25 on N. W. faces, with

Exteriors W. B.

Chains

5 matches on N & 1 match on
S. 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.

Surface level

Soil sandy gravel & 3rd rate
dense greasewood & Cots
claw Bunch.

South bet. Secs. 31 & 36

Var. 13° 54' E.

4000 Set a post 3 ft. long, 3 ins.
square, with marked stone
12 ins. in the ground, for
1/4 sec. cor. marked 1/4 S.
on W. face, dug pits 18 x 18 x 12

S. 1 S. R. 5 W.

chain

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 The Cor. to Sps. 1 & 2 S. R.
5 & 6 W.

Simple Rolling.

Soil 2^d rate.

Dense greenwood & Cats-
claw Bush.

I carefully examined the
adjustments of my solar
compass today partic-
ularly the latitude &
reversing apparatus and
found them correct.

December 11. th 1882

Exteriors. E. B.

Retracing.

chains

Before proceeding further with the survey of the Exterior Boundary, I made a change of 5 Minutes in the latitude arc of my Solar Compass by subtracting the same from the reading previously given and at noon verified and corrected same by observation on the sun I also tested instrument by reversing.

From the corner to Sp. 2 & 3 S. Rs 4 & 5 N. which I retraced and found 36.81 chs West of the Auxiliary Meridian, I run South on the line already established

S. 3 S. R. 5 W.

chains

by W. S. Porman,
South bet Secs. 1 & 6.

Var. 13° 54' E!

15.00 Enter scattering Mesquite
40.00 Find cor. & Post in mound
of earth with pits. 2 redig Pits
80.04 Find cor. & Post in mound
of earth with pits ^{for cor. to Secs. 6, 7 & 12} & redig
Pits and rebuild mound,
take of proper size.

Surface level

Soil 1st rate

Scattering Mesquite &
dense undergrowth of
Arrow & Catclaw brush.

South bet. Secs. 7 & 12

Var. 13° 54' E!

Esterius Retracing

chains

4000

Found no cor. I continued
 South ^{5 miles} and fail to find
 any traces whatever of
 old corners, after inquiry
 of settlers and careful
 search. Return to cor.
 to Secs. 1. 6. 7 & 12. from
 thence I run South on
 a true line bet. Secs. 7 & 12
 Var. 13° 54' E.

4000

Set a post 3 ft. long, 3 ins. sq.
 with marked stone 12 ins. in
 the ground for $\frac{1}{4}$ sec. cor.
 marked $\frac{1}{4}$ P. on W. face, dug
 pits 18 x 18 x 12 ins. West 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. from which

S. B. T. 3 S. R. 5 W.

Chains

A Mesquite Sim. dia. br. N. 34° W. 181 lbs dist
marked $1/4$ S. B. T.

A Mesquite Sim. dia. br. S. 71° E. 214 lbs dist.
marked $1/4$ S. B. T.

61.00 Enter low Bottom

80.00 Set a Granite stone $16 \times 10 \times 8$ ins.
11 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, Pts impract-
icable

Surface level

Soil 1st & 2^d rate

Scattering Mesquite & Cotton-
wood,

Dense undergrowth.

Exterior Retracings C.B.

Chains

South bet. Secs. 13 & 18.

Var. 130° 54' E.

- 14.71 Left Bank of Gila River
br S. 34° E. measure across.
- 20.92 Right bank low. & deep water.
- 40.00 Set a Post 3ft. long 3 ins. sq.
with marked stone 12 ins. in
the ground for 1/4 sec. cor.
marked 1/4 S. on W. face, dug
pits 18 & 18 & 12 ins. W. S. of
post 5 1/2 ft. dist. and raised
a mound of earth 1 1/2 ft.
high 3 1/2 ft. base around post.
from which a Magnet 10 ins. dia. br.
N. 82° W. 261 lbs dist. marked 1/4 S. B.P.
- 40.62 Road Et W. as seen diff. low
Bottom
- 80.00 Set a Post 4ft. long 4 ins. sq.
with marked stone 12 ins. in

S. 3 S. R. 5 W.

Lains

the grounds for cor. to Secs.
 13. 18. 19 & 24. marked
 S. 3 S. S. 18 on N. E.
 R. 4 W. S. 19 on S. E.
 R. 5 W. S. 24 on S. W. and
 S. 13 on N. W. faces, with 3
 notches on N. E. edge, 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.
 Surface slightly rolling
 Soil 1st and 2^d rate
 Scattering Mesquite &
 Cottonwood along River
 Dense undergrowth.

South bet. Secs. 19 & 24.

Exterior Retracings

Lines

Var. $130^{\circ} 54' E$

32.70 Cross Road course N. W. & S. E. 46°

40.00 ^{Set} Post 3 ft. long 3 in. sq. with marked stone pins 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. 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

55.00 Road course N. W. & S. E. 20°

80.00 Set a Post 4 ft. long, 4 in. square, with marked stone pins in the ground for Cor. to Sec. 19, 24, 25 & 30. marked S. 3 S. S. 19 on N. E. N. 4 W. S. 30 on S. E. N. 5 W. S. 25 on S. W. and S. 24 on N. W. faces, with

E. B. T. J. S. R. 5 W.

Station

4 notches on NW 2 notches 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 Mesquite 14 ins. dia. br. S. 10° E.
23 lbs dist. marked T. 3 S. R. 4 W. S. 30 B. P.
& Mesquite 8 ins. dia. br. N. 44° E. 140 lbs dist.
marked T. 3 S. R. 4 W. S. 19 B. P.

Surface level

Soil 1st rate

Scattering Mesquite

Dense under growth.

South bet. Secs. 25 & 30.

Var. 130° 54' E!

4000 Set a Post 3 ft. long, 3 ins. sq.
4 ins. in the ground, for 1/4

Exterior Retracings

chains

Sec. cor. marked $1/4$ S. on W. face, from which a Mesquite 18 ins. dia. br. N. 85° E. 40 lbs dia. marked $1/4$ S. B. P.

@ Mesquite 12 ins. dia. br. N. 15° W. 80 lbs dia. marked $1/4$ S. B. P.

80.00

Set a Post 4 ft. long 4 ins. sq. 24 ins. in the ground for Cor. to Secs. 25, 30, 31 & 36. marked

P. 3 S. S. 30 on N. E. R. 4 W. S. 31 on S. E.

R. 5 W. S. 36 on S. W. and

S. 25 on N. W. faces with 5 notches dug pits 18 x 18 x 12 ins. in each cck. 5 ft. off, and raised a mound of earth 2 ft. high 4 ft. base around post on N. & 1 notch on S. edge, from which

a Mesquite 18 ins. dia. br. N. 10° W. 108 lbs dia. marked P. 3 S. R. 5 W. S. 25 B. P.

a Mesquite 14 ins. dia. br. S. 57° W. 115 lbs dia. marked P. 3 S. R. 5 W. S. 36 B. P.

Surface level

Soil 1st rate

Scattering Mesquite.

P. B. P. 3 S. R. 5 W.

choies

Heuse undergrowth.

South bet. Secs. 31 & 36

Var. 13° 54' E

4000 Set a post on foot of mesa, 2 ft. long, 3 ins. square, 24 ins. in the ground for 1/4 sec. by marked dug pits 14 ins. diam. ^{part of post set in dirt and raised a mound of dirt 7 ft. high off the level ground} 1/4 S. in W face, from which

a Mesquite 14 ins. diam. br. E. 120 lbs. dist. marked 1/4 S. B. R.

no other tree in thin line

ascend on top of mesa 30 feet high

43.20 Dry wash soft deep. 60 lbs with corner E.

60.30 " " 35 " " 80 " " " "

8000 Set a Granite stone 18 x 10 x 8 ins. 12 ins. in the ground for Cor. to Dps 3 & 4 S. R. 4 & 5 W. marked with 6 notches on each edge and raised a mound of

Retracing E. B. T. 3 S. R. 5 W.

Chains

stone alongside, Pits *Impatiens*
from which an Ironwood
10 in. dia in S. 46° W. 125 lbs dist.

marked T. 4 S. R. 5 W. S. 1 B. T.

Surface level in valley

Soil 1st rate

Mesa calling soil 2^d rate

Scattering Mesquite

Dense undergrowth

Exterior S. B. S. 3 S. R. 5 W.

chain

Before proceeding further I made a change of 5 minutes in the latitude arc of my Solar Compass by subtracting same from the reading previously given and at noon verified and corrected same by observation on the sun. I further tested instrument by re-seeing.

From the Cor. to Sp. 3 & 4 S.
Ro. 4 & 5 W. just now established I run West on a true line bet. Secs 1 & 36
Var. $13^{\circ} 54' E.$

21.10 Dry wash 10 feet deep. 25 lbs wide
course S. $42^{\circ} E.$

40.00 Set volcanic rock $16 \times 12 \times 8$

Estierons S. B.

Chains.

ins. 11 ins. in the ground,
for $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$
on N. face, dug pits 18+18+12
ins. Ex W. of stone $5\frac{1}{2}$ ft. dist.
and raised a mound of
earth 1' ft. high 4' ft. base
alongside.

67.30 Dry well 3 ft. deep. 25 lbs. wide
Course N. 30° E.

8000 Set a Malpais 18+14+10 ins.
12 ins. in the ground for cor.
to Secs. 1. 2. 3 5 & 36. marked
with 1 notch on Ex 5 notches
on W. edge, and raised a
mound of stone alongside,
Pit impracticable
Surface rolling dry Mesa land
Soil 2^d rate
Greewood betelaw & Arrow
bush

N. 3 S. R. 5 W.

chains

West. bet. Secs. 2 & 35.

Var. $130^{\circ} 54' E$

- 20.25 Dry wash 30 ft. deep. 30 lbs wide
course N. $87^{\circ} E$.
- 26.25 Leave Work to S. $52^{\circ} W$.
- 40.00 Set a Granite stone $18 \times 10 \times 8$ 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, Pts impracticable
- 63.00 Dry wash 16 feet deep 30 lbs wide course
S. $34^{\circ} E$.
- 80.00 Set a Granite stone $18 \times 12 \times 8$ ins.
12 ins. in the ground, for Cor. to
Secs. 2, 3, 34 & 35, marked
with 2 notches on E & 4 notches
on W. edges, and raised a
mound of stone alongside
Pts impracticable

Esterions S. B.

claves

Surface rolling, ascending Pt.
Soil 3^d rate
Dense Greenwood & Cats claw
brush.

West. bet. Secs. 3 & 34.

Var. 13° 54' E.

Ascending E. slope of Mountain

4000

Set a granite 16x12x8 ins. 11
ins. in the ground for $\frac{1}{4}$ sec.Cor. marked $\frac{1}{4}$ on the face
and raised a mound of
stone alongside, Pt. impracticable.

8000

Set a granite stone 18x12x8
ins. 12 ins. in the ground for
cor. to Secs. 3, 4, 33 & 34. marked
with 3 notches on E & W. edges,
and raised a mound of

N. 3 S. R. 5 W.

chains

stone alongside, Pto impracticable.
 Surface broken & rocky
 S on C 4th rate
 Greasewoods Catclaw
 bushes.

West bet. Secs. 4 & 33.

Var. $13^{\circ}54'8''$

- 31.00 Ascending over High Mtn
 Ridge
- 40.00 Set a granite stone $18 \times 14 \times 10$ 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 along
 side, Pto impracticable.
- 51.00 Top of Mountain by N. 41 E.
 & S. 41 W. Descend
- 63.00 Foot of Mountain and

Exterior S. B.

Chairs

ascend another

80.00 Set a granite stone $18 \times 12 \times 8$
ins. 12 in. 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 mound of
stone along side Pit inap-
practicableSurface mountainous broken ^{and rocky}Soil 4th rate

Scattering Boulders.

I discontinue the line on
account of high broken
Mountains.I carefully examined the
adjustments of my solar
Compass today, particu-

P. 3 S. R. 5 N.

arly the latitude and
reversing apparatus, and
found them correct.

December 12th 1882

For final paths see Book
to Sp. 1 N. R. 2 N.

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64

BOOK 1631

U. S. Surveyor General's Office,

TUCSON, ARIZONA,

February 21, 1883.

The foregoing Field Notes of the Survey of the

⁶ Extensions of Open 1, 2 & 3, South
Range 5 West,

1 St. part of Contract, &c
See 2nd & 3rd parts,

Of the Gila and Salt River Base and Meridian, Arizona, execu-
ted by R. L. Powers,

Deputy Surveyor, under his contract of the

24th

day of

October

, 1882, having been

critically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved.

J. W. Robbins
Surveyor General.