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Field Notes

OF THE SURVEY OF

*6th Auxiliary through
Sp - 114-12 - N - thro. Re 24428E*

BOOK 1346

No. 1346

Gila and Salt River Base and Meridian

ARIZONA.

By *O. D. Wheeler* D.S.

Under contract dated *May 31-1882*

Survey commenced *July 13-1882*

Survey completed *July 13 1882*

No. 1346 ✓

1346

31	32	33	34	35	36	37	38	39	40
6	5	4	3	2	1	6	5	4	3
7	8	9	10	11	12	7	8	9	10
18	17	^T R M	15	14	13	18	17	^T R M	15
19	20	21	22	23	24	19	20	21	22
30	29	28	27	26	25	30	29	28	27
31	32	33	34	35	36	37	38	39	40
6	5	4	3	2	1	6	5	4	3
7	8	9	10	11	12	7	8	9	10
18	17	^T R M	15	14	13	18	17	^T R M	15
19	20	21	22	23	24	19	20	21	22
30	29	28	27	26	25	30	29	28	27
31	32	33	34	35	36	37	38	39	40
6	5	4	3	2	1	6	5	4	3
7	8	9	10	11	12	7	8	9	10
18	17	^T R M	15	14	13	18	17	^T R M	15
19	20	21	22	23	24	19	20	21	22
30	29	28	27	26	25	30	29	28	27
31	32	33	34	35	36	37	38	39	40

BOOK 1346

P. 12. R. 246

P. 12. R. 246

No. 1346

6th Auxiliary Meridian East. through T^p.
11 North, Gila & Salt River Meridian

Commenced the survey
of the 6th Auxiliary Mer-
idian July 12, 1882.
with a Burt's Patent
Improved Solar Compass
made by Otto Pencil of
Basel in Germany in
1881. the instrument was
carefully examined and
tested on the true Meridian
in Tucson Arizona, before
commencing this survey
and was also further tested
by me, and found in
perfect adjustment.
on the 14th July 1882.
I set my instrument
at the cor. to Sp. 10 & 11 N.
R. 24 & 25 E. examined it

6th Auxiliary Meridian E.

chain

and found it correct.

I took the latitude and
found it to be $34^{\circ} 16'$ North

From the Cor to Sp. 10 & 11
N. Rs 24 & 25 E. part
recently established by
me, which is a Basalt
stone with stone worn
along side of me

North bet. Secs. 31 & 36

Var. $13^{\circ} 15'$ S!

as per observation with Solar Compass.

Ascend

29.25 Cross Wash 30 lbs widely course

N. 85° S! and ascend

4000 Set a sandstone 16 x 9 x 4
ins. 12 ins. in the ground ✓

through T. 11 N.

4 ins

for 1/4 sec. cor. marked 1/4
on N. face, ^{and ridge rounded off along side} from which
a yellow Pine 6 ins. dia. S. 69° E. 65 lbs dist.
marked 1/4 S. B. T.

a Yellow Pine 3 ins. dia. br. S. 10° W. 56 lbs dist.
marked 1/4 S. B. T.

69.75 Top of ridge br N. 44° E. & descend
80.00 Set adme stone 18 x 12 x 4 ins.

12 ins. in the ground, for cor. to
secs. 25, 30, 31, & 36 marked
with snatches on N & 1 notch
on S. edges, from which

a Yellow Pine 6 ins. dia. br. N. 20° E. 35 lbs dist.
marked T. 11 N. R. 25 E. S. 30 B. T.

a Yellow Pine 10 ins. dia. br. S. 31° E. 14 lbs dist.
marked T. 11 N. R. 25 E. S. 31 B. T.

a Yellow Pine 4 ins. dia. br. S. 70° W. 37 lbs dist.
marked T. 11 N. R. 24 E. S. 36 B. T.

a Spruce 16 ins. dia. br. N. 36° W. 15 lbs dist.
marked T. 11 N. R. 24 E. S. 25 B. T. ✓

6th Auxiliary Meridian

chains

Land broken
 Soil 3^d rate
 Timber of Pine and Juniper.

North bet. Secs. 25 & 30

Var. $12^{\circ} 34' E$

Descend

21.63 Cross Wash 3000 wide course

N. $45^{\circ} 8'$ ascend38.00 Top of spur to N. $40^{\circ} E$ and
descend40.00 Set a Basalt stone $18 \times 10 \times 4$ ins.12 ins. in the ground for $\frac{1}{4}$ sec.

Cor. marked $\frac{1}{4}$ on West face
 and raised a mound of
 stone along side, Pits imp-
 racticable.

76.15 Cross Road course E. ✓

through P. 11 N.

chain

78.75 cross Wash 30 lks wide
course N. 85° E. and ascend

8000 Set a Basalt stone 16 x 14 x 3
ins. 11 ins. in the ground
for. Cor. to Secs. 29, 24, 25 & 30
marked with 4 notches on
N & 2 notches on S. edge,
from which

a Juniper 10 ins. dia. br. N. 9° E. 105 lbs dia.
marked P. 11 N. R. 25 E. S. 19 B. P.

a Juniper 16 ins. dia. br. N. 32° W. 135 lbs dia.
marked P. 11 N. R. 24 E. S. 24 B. P.

Land broken

Soil 3d rate

Timber of Pine & Juniper.

North bet. Secs. 29 & 24

Cor. 13° 34' E. ✓

6th Auxiliary Meridian

Lain	Over level ground
10.53	Cross branch road, course N. 64° E.
4000	Set a Post 4 ft. long 4 ins. sq. with marked stakes in. in the ground, for 1/4 sec. cor. marked off S. on N. face, dug pit 18 x 18 x 12 ins. Pl. S. of post 5/8 ft. dist. and raised a mound of earth 1 1/2 ft. high 3/8 ft. base around post.
49.15	Cross Road br Et N.
51.35	Cross Wash 30 lbs wide, course E. & ascend
79.19	Top of spur br Et N. & desc- end
80.00	Set a Basalt stone 24 x 19

through T. 11 R.

chain

16 ins. 18 ins. in the ground
for cor. to Secs. 13, 18, 19 & 24
marked with 3 notches on
W. S. edges and raised a
summit of stone alongside
Pit. unpracticable
Land level & broken
Soil 2^d & 3^d rate
Timber of Juniper
Vegetation of Bluegrass.

North bet. Secs. 13 & 18

Cor. 120° 32' E.

ascend

26.50 a Corral bro W. 200 ch. dist
37.17 bro. Wash 35 lbs. wide
course S. and ascend

6th Auxiliary Meridian

Chain

4000

Set a Basalt stone 19 x 9 x 4
ins. 12 ins. in the ground
for 1/4 sec. cor. marked 1/4 S
on W face, dug pit 18 1/2 x 12
ins. N.W. 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.

8000

Set a Basalt stone 18 1/2 x 12 x 6
ins. 12 ins. in the ground
for cor. to Secs. 7, 12, 13 & 18.
marked with 2 notches
on W & 4 notches on S. edge,
and raised a mound of
stone along side, Pits
impracticable from which
a juniper 12 ins. dia. to h. 56° E. 59 lbs dist.
marked P. 11 N. R. 25 E. S. 7 B. P.
Land level & broken ✓

through T. 11 N

chains

Soil 2 d. & 3 d rate
 Number of Juniper
 Vegetation of Bunchgrass

Width bet. Secs. 7 & 12

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

Ascend

4000 Set a Basalt stone $24 \times 16 \times 4$
 ins. 18 ins. in the ground
 for 1/4 sec. cor. marked 1/4
 on W. face, and raised
 a summit of stone along-
 side. Pit impracticable

8000 Set a Basalt stone $20 \times 8 \times 3$
 ins. 15 ins. in the ground
 for cor. to Secs. 1, 6, 7 & 12.
 marked with a notch on

6th Auxiliary Meridian

Dip.

North and 5 notches on
S. edge, and raised a
row of stone along
side Pit's imperfect cable
Land level & broken
Soil 2^d & 3^d rate
Timber of Juniper
Vegetation of *Bunchgrass*.

North bet. Secs. 14 & 16.

Var. 14° E!

Ascend

18.17 Top of ridge. Az. $N61^{\circ}$ E.
& descend

4000 Set a Basalt stone
16 x 9 x 4 ins. 12 ins. in
the ground for $1/4$ sec. ✓

through S. 11 N.

chain

Cor. marked $\frac{1}{4}$ on
 W. face, and raised a
 mound of stone along
 side Pit unsuspectible
 8000 Set a Basalt stone $20 \times 8 \times 3$
 ins. 15 ins in the ground
 for Cor. to Sps $\frac{1}{4}$ 12 N.
 Rs 24×25 E. marked
 with 6 notches on each
 edge, and raised a
 mound of stone along
 side Pit unsuspectible
 Sand level and broken
 Soil $2^d \times 3^d$ rate
 Center of Juniper
 Vegetation of Bunch grass

July 12, 1882 ✓

6th Auxiliary Meridian

chains

Before proceeding further with the survey of the 6th Auxiliary Meridian I made a change of 5 minutes in the latitude arc of my solar compass by adding same to the reading previous by given, and at noon verified and corrected same by observation on the sun I also further tested instrument by reversing.



through P. 12 N.

chain

From the cor. to Sps
11 x 12 N. Ro 24 x 25 C.
just now established
From north bet. Secs.
31 x 36.

Var. $13^{\circ} 30' E$?

ascend gradually

28.00

Top of Ridge to $N 68^{\circ} E$
and descend

40.00

Set a Basalt stone $18 \times 10 \times 4$
ins. 12 ins. in the ground
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
on N. face, and raised
a round of stone along-
side, Pit unpeasticable

80.00

Set a Basalt stone $16 \times 9 \times 4$
ins. 11 ins. in the ground
for cor. to Secs. 25, 30, 31/36

✓

6th Auxiliary Meridian

Chain

marked with 5 notches
on N & 1 notch on S. edges,
and raised a mound of
stone alongside. Pits sup-
rectifiable.

Land rolling

Soil 2d rate

Timber of Juniper

Vegetation of Birchgrass.

North bet. Secs 25 & 30

Var. 120 37' E.

Over rolling ground

4000 Set a Basalt stone 162927

ins. 11 ins. in the ground,

for 1/4 sec. cor. marked by
dug pits 18" x 18" x 2 ins. 4 ft. of stone 57" ft. dist.
on N. face and raised

through T 12 N.

chains

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

78.76 Top of Bluff to E. W. 2 above

80.00 Set a Basalt stone $18\frac{1}{2} \times 10$

ins. 12 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 along which
from which a gnomon 18 ins. dia.
to N. 87° E. 16 lbs dia. marked

T. 12 N. R. 25 E. S. 19 B. T.

A gnomon 18 ins. dia. to S. 37° W. 48 lbs dia.

marked T. 12 N. R. 24 E. S. 25 B. T.

Land Rolling.

Soil 2d rate

Number of Gnomons

Vegetation of Bushgrass

6th Auxiliary Meridian

Chains

North bet. Secs. 19 & 24.

Var. $14^{\circ} 15' E.$

Descend abruptly

36.00 Enter valley bet. Ex. W.

40.00 Set a Basalt stone $18 \times 16 \times 4$
ins. 12 ins. in the ground, for
 $\frac{1}{4}$ sec. bet. marked $\frac{1}{4}$ on
W. face, and raised a mound
of stone slugs, etc. Pkts in-
tractible

80.00 Set a Post 4 ft. long, 4 ins. sq.
with marked stone 24 ins.
in the ground, for cor. to
Secs. 15, 18, 19, & 24 marked
S. 12 N. S. 18. on N. E.

R. 25 E. S. 19 on S. E.

R. 24 E. S. 24 on S. W. and
S. 13 on N. W. faces, with
3 notches on N.W. edges,

through P. 12 N.

chain

from which a *Juniperus* 10 ins.
 dia. br. h. 450 E. 37 lbs diet.
 marked P. 12 N. R. 25 E. S. 18 B. P.
 a *Juniperus* 5 ins. dia. br. 570 E. 29 lbs diet.
 marked P. 12 N. R. 25 E. S. 19 B. P.
 a *Pinus* 12 ins. dia. br. 850 N. 62 lbs diet.
 marked P. 12 N. R. 24 E. S. 24 B. P.

Land Rolling.

Soil 2^d rate

Timber of *Juniperus*

Vegetation of *Pennisetum*

North bet. Secs. 13 & 18.

Var. 13° 30' E.

over Rolling Land

4000 Set a Basalt stone 15x8x3
 ins. 10 ins. in the ground ✓

6th Auxiliary Meridian

Chains

for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$
 on W. face, dug pits $18 \times 10 \times 12$
 ins. Pres. 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 or ch.

8000 Set a sandstone $28 \times 12 \times 3$ ins.
 21 ins. in the ground, for cor.
 to Sec. 7, 12, 13 & 18, marked
 with 2 notches on W & 4 notches
 on S. edges, and raised a
 mound of stone along
 side, Pit impracticable
 Land calling.

Soil 2^d rate

Timber of Juniper
 Vegetation of Bush grass

through T. 12 N.

Chains

North bet. Secs. 7 & 12

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

Over Rolling Land

40.00 Set a sandstone $18 \times 16 \times 3$

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 from which
a Pin 10 ins. dia. br. $S 8^{\circ} E$ 57 lbs. dist.
marked $\frac{1}{4}$ S. B. T.

80.00 Set a Basalt stone $18 \times 16 \times 4$

ins. 12 ins. in the ground
for cor. to Secs. 7, 6, 7 & 12.

marked with 1 notch on
N and 5 notches on S edge,
and raised a mound of
stone alongside, Pts imp-

6th Auxiliary Meridian

chain

racticable

Sand Rolling.

Soil 2 d out

Diameter of Gun per

Vegetation of Bunchgrass.

North bet. Secs. 1 & 6.

Nor. $130^{\circ}30'E$

Hes and gradually

25.00 cross work 30 lbs wide corner

N. $210^{\circ}W$. and ascend40.00 Set a Basett stone $15 \times 9 \times 4$

ins. 10 ins. in the ground

for $1/4$ sec. bur. marked $1/4$ on N. face and raised

a mound of stone along

side P to unexpected cab.

✓

through R. 12 N.

chains

- 41.50 Top of Spur bro Ex N. and descend
- 56.20 Cross Wash 22 Chs wide, course Wand ascend.
- 75.40 Intersect 3^d Standard Parallel north 19.00 chs W of Standard bro. to Ops 13 N. R. 24 & 25 E. which is a volcanic stone set firmly in the ground properly notched with stone mound on E side I rebuilt mound at point of intersection I set a Basalt stone 20 x 12 x 8 ins. 15 ins. in the ground for closing cor. to Ops 12 N. R. 24 & 25 E. marked

Cth Auxiliary Meridian
through T. 12 N.

Chairs

C. C. with 6 notches on Sth
Ex W. edges, and raised
a mound of stone along-
side, Pits impracticable.

Land rolling

Soil 2^d rate.

Timber of Juniper

Vegetation of Bunchgrass

July 13. 1882

U. S. Surveyor General's Office,
Tucson, Arizona, *February 17*, 1882

The foregoing Field Notes of the survey of the

6th Auxiliary Meridian

East, through Townships.

11 21 22 North.

of the Gila and Salt River Base and Meridian, Arizona,
executed by *C. W. Wheeler*,

D. S., under his contract of the *31st* day of

May, 1882, having been critically ex-
amined and the necessary corrections and explanations

made, the said Field Notes and the surveys they de-
scribe, are hereby approved.

J. M. Robinson

Surveyor General.