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BOOK 1294

No. 1294

Field Notes

OF THE SURVEY OF

*2^d Standard North
Length Ranges 26
31 East.*

1294

BOOK 1294

No. 1294

Gila and Salt River Base and Meridian

ARIZONA.

By *A. P. Johnson* D. S.

Under contract dated *June 8* 1882.

Survey commenced *July 9* 1882.

Survey completed *July 14* 1882.

Comp



BOOK 1294

Field - Notes

for

2^d Standard North
~~bet Rs. 26 E. & R 31 E.~~

Through Range 26 3
" R. 26 E. " 31 17

31	32	33	34	35	36
14	12	10	8	6	4

R. 31 E.

31	32	33	34	35	36
17	19	21	22	New Mexico	

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2^d Standard North through R. 26 E.

Gila & Salt River Meridian

Before commencing the Survey of the Standard, I examined carefully the instrument used in this Survey a Burt's Improved Patent Solar Compass recently recd. made by Otto J. J. J. of Cassel in Germany in 1881. it also was carefully tested on the true Meridian in Tucson, I took the latitude at the Standard Cor. to Sp. 9 N. R. 26 & 27 E. and found it to be 34° 06' North

2d. Standard N. through R. 26 E.

40

From the Standard Cor.
to Sp. 9 N. Rs 26 + 27 E.
which is a volcanic stone
aspen 8 in. dia. which is marked
& marked for Standard
Cor. with bearing trees, properly
marked in N. E. N. W &
S. W. sec. From

West on South Boundary of
Sec 36, on a true line

Var. $10^{\circ}18'E$

(Capt observation with Solar Compass)

Ascending,

4000 Set a Basalt stone $16 \times 13 \times 4$ ins.
11 ins. in the ground for $1/4$ sec.
Cor. marked S. C. $1/4$ on N. face
and raised a mound of
stone along side Pit imp

2^d Standard N. through R. 26 E!

Chain

racticable, from which
 a Spire 8 ins. dia. br. N. 13 E. 40 lbs dist.
 marked S. C. $\frac{1}{4}$ S. B. T.

a Spire 18 ins. dia. br. S. 37° W. 20 lbs dist.
 marked S. C. $\frac{1}{4}$ S. B. T.

50.00 Top of Spire 80 ft high, br North descend
 60.00 brs Mark 40 lbs wide come North
 ascend

80.00 Put a Post 4 ft long 4 ins. sq. with
 marked stone 12 ins. in the ground
 for Standard br. to sec. 35 & 36.
 marked ^{S.C.} T. 9 N. R. 26 E. on N.

S. 36 on on E and

S. 35 on W faces, with 1 notch
 on E & 5 notches on W. faces, dug
 pits 18 x 18 x 12 ins. N., E & W. of
 Post 5 1/2 ft. dist. and raised
 a mound of earth 4 ft high

2^d Standard North through R. 26 E.

Chains

4 1/2 ft. base around post,
 from which a spurse
 12 ins. dia to N. 39° E. 76 lbs dist.
 marked S.C. T. 9 N. R. 26 E. S. 36 B. T.
 a spurse 9 ins. dia to N. 48° W. 104 lbs dist.
 marked S.C. T. 9 N. R. 26 E. S. 35 B. T.
 Land rough mountains.
 Soil 2^d rate

Heavy timber good for
 lumber. Spruce, Yellow
 Pine, Hemlock, under
 growth.

West on S. Boundary Sec. 35.
 For 10° 45' E.

Ascend

18.00 Top of spurs to N. 62° W. 130 ft high

Standard North through R 26 E!

chains

descend

33.10 Cross Wash 30 lbs wide course

N. 64° W. 80 ft. deep ascend

40.00 Set a Basalt stone 16 x 14 x 4 ins.

11 ins. in the ground for Standard

and 1/4 sec. Cor. marked S. C. 1/4

on N. face, and raised a mound

of stone alongside, from which

aspine 20 ins. dia br. N. 27° W. 35 lbs dist.

marked S. C. 1/4 S. B. T.

aspine 25 ins. dia br. N. 64° E. 48 lbs dist.

marked S. C. 1/4 S. B. T.

80.00 Set a post 4 1/2 ft. long, 4 ins sq.

with marked stone 12 ins. in the

ground for ^{Standard} Cor. to Secs. 34 x 35.

marked S. C. S. g N. R. 26 E. on N.

Sec. 35 on E. and

S. 34 on W. faces, with 2 notches

2^d Standard North through R. 26 E

chain

on Ex 4 notches on W. face,
and raised a mound of earth
around post. from which
a Pin. 14 ins. dia. br. h. 46° E. 30 lbs dist.
marked S. C. 9 N. R. 26 E. S. 35 B. T.
A Pin. 36 ins. dia. br. h. 12° W. 9 lbs dist.
marked S. C. 9 N. R. 26 E. S. 34 B. T.
Land broken & mountainous
Soil 2^d rate good timber
for lumber, Spruce, Fir &
Pine, undergrowth.

West on S. Boundary Sec. 34.
Var. 12.00 E.

Acad

40.00 Set a post 3 ft. long 4 ins. sq.
with marked stone 12 ins. in

2^d Standard N. through R. 26 E.

chain

^{1/4 sec}
 The ground, for Standard cor.
~~to be~~ marked S. C. $\frac{1}{4}$ on N. $\frac{1}{4}$ sec,
 and raised a mound of earth
 1 ft. high 3 ft. base around
 post from which a spruce
 28 ins. dia br. N. 65° E. 9 lbs. dist.
 marked $\frac{1}{4}$ S. B. T.

a spruce 16 ins. dia br. N. 28 W. 20 lbs. dist.
 marked $\frac{1}{4}$ S. B. T.

44.50 Top of spruce to N. 16° W. 29 ft high.
 ascend along side of sloping mountain

55.00 Cross Wash 30 lbs wide curve N. 70° E.
 ascend

8000 Set a post 4 ft. long 4 ins. sq. with
 marked stone 12 ins. in the ground,
 for Standard cor. to sec. 33 & 34,
 marked S. C. T. 9 N. R. 26 E. on N.
 S. $\frac{3}{4}$ on E. and

2^d Standard N. through R. 26 E.

chain

+ with 3 notches on E. W. edge -
 S. 33 on W. face, and raised
 a mound of earth 2 ft high,
 4 1/2 ft. base around post, from
 which, Aspen 13 in. dia. to N. 73° E. 27 lbs dist.
 marked S. C. T. 9 N. R. 26 E. S. 34 B. T.

Aspen 10 in. dia. to N. 29° W. 34 lbs dist.
 marked S. C. T. 9 N. R. 26 E. S. 33 B. T.

Land undulating and
 broken, Soil 2 & 3^d rate
 Timber of spruce Pine, Fir,
 with scattering Aspen,
 heavy undergrowth,
 Grass good for pasturage.

West on S. Boundary Sec 33.
 Var. 12° 10' E.

ascend

9^d Standard North through R. 26 E.

chain

35.90 Top of Ridge, bs N.S. 300 ft.
high descend.

4000 Set a post 3 ft. long 4 ins. sq. with
marked stone pins in the
ground for ^{Standard} $\frac{1}{4}$ sec. box marked
S.C. $\frac{1}{4}$ S. on N. face, and raised
a mound of earth $1\frac{1}{2}$ ft. high
 $3\frac{1}{2}$ ft. base, around post, from which
yellow Pine 28 ins. dia. br. N. 68° W. 110 lbs dist.
marked S.C. $\frac{1}{4}$ S. B. P.

A yellow Pine 26 ins. dia. br. N. 30° E. 173 lbs dist.
marked S.C. $\frac{1}{4}$ S. B. P.

Ascend very gradually.

80.00 An Aspen 6 ins. dia. which I marked
S.C. P. 9 N. R. 26 E. on N.

S. 33 on E. and

S. 32 on W. faces, with 4 notches
on E and 2 notches on W. faces,

2^d Standard h. through R. 26 E.

chains

for Standard cor. to Secs.
32 & 33. from which

a yellow Pine 10 ins. dia. br. N. 74° E. 34 lks
dist. marked S. C. P. 9 N. R. 26 E. S. 33 B. T.

An Aspen 10 ins. dia. br. N. 14° W. 27 lks dist.
marked S. C. P. 9 N. R. 26 E. S. 32 B. T.

Land broken & mountainous.

Soil 2 & 3^d satv.

Timber good for lumber, spruce
Pine, & Fir, scattering.

Aspen and undergrowth.
Good grass.

West on S. Boundary Sec 32.

Var. 12° 10 E.

Ascend gradually

4000 a spruce 24 ins. dia. which I.
marked S. C. 1/4 S. on N. face

2^d Standard North through R. 26 E.

Chains

for standard $\frac{1}{4}$ sec. cor. from which
 an Aspen 4 ins. dia. ls. N. 32° E. 32 lbs. dist.
 marked S. C. $\frac{1}{4}$ S. B. T.

Aspen 6 ins. dia. ls. N. 76° W. 33 lbs. dist.
 marked S. C. $\frac{1}{4}$ S. B. T.

44.00 A yellow Pine, 13 ins. dia.

80.00 Set a post 4 ft. long 4 ins. sq. with
 marked stone 12 ins. in the ground
 for Standard cor. to Secs. 31 & 32.
 marked S. C. T. 9 N. R. 26 E. S. ~~32~~ W.

Sec. 32 on E. and

Sec 31 on W. faces, with 5 notches
 on E & 1 notch on W. faces, and
 raised a mound of earth $2\frac{1}{2}$ ft.
 high 4 ft. base around post.
 from which a yellow Pine 25 ins. dia.
 ls. N. 29° E. 78 lbs. dist. marked
 S. C. T. 9 N. R. 26 E. S. 32. B. T.

2^d Standard North through R. 26 E

chain

a Yellow Pine 25 in. dia. to 2.44° N. 62^W 160 ft. dist.
marked S. C. P. 9 N. R. 26 E. S. 31 B. P.
Land unmountainous and broken
Soil 2 & 3^d rate.

Timber good for lumber of
Spruce Pine, Fir & scattering
Aspen, undergrowth
Grammae grass good

West on S. Boundary Sec 31
Cor. $12^{\circ} 10' E$

Ascending gradually

4000 Set a Basalt stone 18 x 16 x 4
in. 12 in. in the ground for
Standard $\frac{1}{4}$ sec. cor.
marked S. C. $\frac{1}{4}$ on N. face
and raised a mound

2^d Standard North through Range 26 E.

2 aims Pits impracticable
 of stone along side, from which
 a Pit. 34 ins. dia. to N. 71° E. 26 lbs dist.
 marked $\frac{S.C.}{4}$ S. B. T.

a Pit. 31 ins. dia. to N. 53° W. 16 lbs dist.
 marked S.C. $\frac{1}{4}$ S. B. T.

46.35 brass head of Gulch 45 lbs with
 course N. 40° W. continue ascend

64.00 Depressure to N. 550 ft. high
 descend

80.00 Set a Basalt stone 24 x 16 x 5
 ins. 18 ins. in the ground for
 cor. to Sp. of N. Rs 25 & 26 E.
 marked with 6 notches on
 N. E & W. faces, dug pit
 24 x 18 x 12 ins. crosswise on
 each line N. E & W of
 stone 6 ft. dist. with mound
 of stone along side.

Pits impracticable

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29 Standard N. through R. 26 E.

Chains

No trees near.
^{at ground level}
 Timber ~~none~~ sectioning.
 Good grass
 Soil 1st rate.

2^d Standard North through R 31 E.

Chains

From the Standard Cor. to Tps 9 N. Rs 30 + 31 E which is a Post, marked & wothed 4 ins. square, with mound of earth 2 1/2 ft. high, with pits 2 x 1 1/2 x 1 ft. established accp instructions of old Manual, thence I run East on S. Boundary Sec. 31.

Var. 13° 41' E!

accp observation with Solar Compass.

Ascend

13.25 Cross low Sag course N. 40° W. and ascend.

20.40 Top of ridge br N. 30° W. and S. 30° E! and descend.

2^d Standard N. through R. 31 E.

Ch.

40.00

Set a Sandstone 16x14x10 in.
 11 in. in the ground for
 Standard $\frac{1}{4}$ sec. cor.
 marked S.C. $\frac{1}{4}$ on N. face,
 dug pits 18x18x12 in. E. & W.
 of stone $5\frac{1}{2}$ ft. dist. and
 raised a mound of earth
 alongside.

70.15 Cross Wash 12 $\frac{1}{2}$ mi. N. W. corner
 S. W. and ascend.

80.00 Set a Sandstone 16x10x10
 in. 11 in. in the ground for
 Standard cor. 10 lies.
 31x32. marked ^{S.C.} with 5
 notches on E. 1 notch
 on N. face, dug pits 18x18x
 12 in. N. E. & W. of cor
 $5\frac{1}{2}$ ft. dist. and raised

2^d Standard North through R. 31 E.

chairs

a mound of earth 2 ft high
4 1/2 ft. base along side.

Soil 2^d rate

Vegetation of Bunchgrass
Land rolling.

East on S. Boundary See
32.

Var. 130 41' E.

Ascend

5.25 Top of ridge, to N.E.
and descend

17.40 cross Wash 10 lbs width
come to descend

40.00 Set a Sandstone 12 x 10 x 6
ins. E.W. in the ground
for 1/4 sec. cor. marked

2^d Standard N. through R. 31 E.

Chairs

S. C. $\frac{1}{4}$ on N. face dug
pits $18 \times 18 \times 12$ ins. Ex 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.

49.00 Enter timber to N.S.

80.00 Set a Sandstone $16 \times 9 \times 7$ ins
in the ground for
Standard Cor. to Secs.

32×33 , marked with 4
notches on Ex 2 notches
on Wedge, dug pits $18 \times 18 \times 12$
ins. N. Ex N. of stone $5\frac{1}{2}$ ft.
dist. and raised a
mound of earth $1\frac{1}{2}$ ft.
high $4\frac{1}{2}$ ft. base alongside
Sand Mountains

2^d Standard through R. 31 E.

Chain Soil 2nd rate
Timber of Pine & Juniper
Vegetation of Bunchgrass.

East on S. Boundary
of Sec. 33.

Var 13⁰ 41⁰ E

Ascend

40.00 Set a Sandstone 14x12x9
ins. 10 ins. in the ground
for ^{Standard} 1/4 Sec. cor. marked &c.
1/4th on N face dug pits
18x18 strim. ESW of post
stone 5 1/2 ft. dist. and
raised a mound of
earth 1 1/2 ft. high 3 ft
ft. base alongside.

80.00 Set a Sandstone

29 Standard North through Q. 31 E.

chains

14 x 10 x 8 ins. 10 ins. in the ground, for Standard Cor. to Secs. 33 x 34, marked with bunches on E x W. edges, dug pits 18 x 18 x 12 ins. N. E x W. of stone 5 1/2 ft. dist. and raised a mound of earth 2 ft. high 4 1/2 ft. base along side.

Land rolling.

Soil 2^d rate

Vegetation of Bunch-Grass.

East on S. Boundary
Sec. 34.

2^d Standard N. through R. 31 E.

Chains

Var. $13^{\circ}41' E$

Ascend

40.00 Set a Sandstone $20 \times 20 \times 16$
 ins. 15 ins. in the ground
 for Standard $\frac{1}{4}$ Sec. Cor.
 marked S. C. $\frac{1}{4}$ on N. face
 dug pits $18 \times 18 \times 12$ ins.

Ex N. of stone $5 \frac{1}{2}$ ft. dia.
 and raised a mound
 of earth $1 \frac{1}{2}$ ft. high $3 \frac{1}{2}$
 ft. base along side.

53.90 Top of Ridge to N. Ex S. M.
 & descend.

66.15 Intersect Boundary line
 bet Arizona & New Mexico
 at a point which is
 40.07 chs South from
 the 198th Mile cor.

2^d Standard N. through R. 31 E.

chain

and set a lava stone
 16 x 14 x 12 ins. 11 ins. in the
 ground for closing cor.
 to fractional sec. 3 x 34.
 marked ^{S. E.} C. C. with 6 notches
 R 31 E. on W. S. of N. S. 34
 on N. and S. of N. S. 3 on
 S. faces, with 6 notches
 on N. S. & W. faces, dug
 pits 24 x 18 x 12 ins.

crosswise on each line
 N. S. & W. of stone left
 dist. and raised a mound
 of earth 2 1/2 ft. high 5 ft
 base along side.

Land now in view.

Soil 3^d rate

Vegetation of bunchgrass

July 14th 1882.

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U. S. Surveyor General's Office,
Tucson, Arizona, January 12, 1883.

The foregoing Field Notes of the survey of

3rd Standard North,
through Ranges 26⁺
31 East.

of the Gila and Salt River Base and Meridian, Arizona,
executed by W. P. Johnson,
D. S., under his contract of the 8th day of
June, 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. Robbins
Surveyor General.