

BOOK 166

See Index
1666

Field Notes

OF THE SURVEY OF

Gila and Salt River ^{Base Line}
of Arizona ~~Meridian~~

West from Initial Point
through **BOOK 1666**

Rs 1. 2. 3. 4 & 5. N.

1666

Gila and Salt River Base and Meridian

ARIZONA.

By R. C. Power D. S.

Under contract dated Oct 24 1872

Survey commenced Dec. 5. 1872

Survey completed Dec 8th 1872.

1666

This Book is given with the Standard

1699

Page 1A

Preliminary Oaths of Assistants.

We Richard Shreve
and James Van Pelt

do solemnly swear that we will well and faithfully execute the duties of Chain Carriers; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true length of all lines that we assist in measuring, to the best of our skill and ability and in accordance with instructions given us in the survey of the

Extensive & Subdivision Lines of Twp N. Rs 2. 3. & 4 W. Tps 18. Rs 2. 3. 4 & 5 Tps 25. Rs. 5 W. & Tp. 3 S. Rs. 5 W.

of the principal base and meridian in the Territory of Arizona.

Richard Shreve Chainman.
James Van Pelt Chainman.
Subscribed and sworn before me, this 5th

day of December 1882

R. le Poreus
Notary Public.



15 (Copy this together with No. 1.)
Preliminary Oaths of Assistants.
on same page

BOOK 1666

We Richard Shrope &
and Samuel N. Van Pelt

do solemnly swear that we will well and faithfully execute
the duties of Chain Carriers; that we will level the chain over
even and uneven ground, and plumb the tally pins, either by
sticking or dropping the same; that we will report the true dis-
tance to all notable objects, and the true length of all lines that
we assist in measuring, to the best of our skill and ability and
in accordance with instructions given us in the survey of the

Gila & Salt River Base Line
Sub. Along T. 1. 2. 3. 4 & 5 N.

of the principal base and meridian in the Territory of Arizona.

Richard Shrope Chairman.
Samuel N. Van Pelt

Subscribed and sworn before me, this 5th

day of December 1882

Richard Powers
Notary Public.

We Hank Hemmer
and Ridgely M Laird

do solemnly swear that we will well and faithfully execute
the duties of Chain Carriers; that we will level the chain over
even and uneven ground, and plumb the tally pins, either by
sticking or dropping the same; that we will report the true dis-
tance to all notable objects, and the true length of all lines that
we assist in measuring, to the best of our skill and ability and
in accordance with instructions given us in the survey of the

Exterior & Subdivision Lines of

Sp 1 N. Rs 2, 3, & 4 W. Sp 1 S:

Rs 2, 3, 4 & 5 W. Sp 2 S: R 5 W

& Sp 3 S. Rs 5 W.

of the principal base and meridian in the Territory of Arizona.

Hank Hemmer Chainman.

Ridgely M Laird Chainman.

Subscribed and sworn before me, this 5th

day of December 1882

R. C. Ponce

Notary Public.



We Oscar Gebler
& Joseph Schwarz
do solemnly swear that we will well and truly perform the
the duties of Cornersmen and
Armen

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 ~~Base line of the file & all lines marked~~

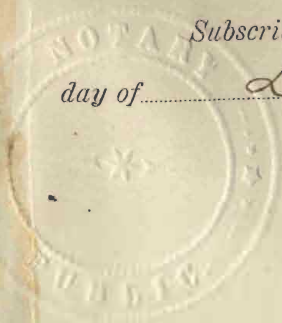
Extensions & Subdividing Lines of
Tps 1 N. Rs 2, 3, & 4 W. Tps 1 S. Rs
2, 3, 4 & 5 W. Tps 2 S. Rs 5 W.
& Tps 3 S. Rs 5 W.

of the principal base and meridian in the Territory of Arizona.

Oscar Gebler *Armenian Miner*
Joseph Schwarz, *Miner*

Subscribed and sworn to before me this 5th
day of December 1882

R. C. Powers
Notary Public.



Field - Notes

of
Principal Base Line
from the Intersection
of Gila & Salt River
Base & Meridian
at the junction of
Gila & Salt River
Running West
through Ranges. 1. 2
3. 4. & 5 West.

26	10	20	21	22	23	24	29	30	31	32	33	34	39	40	41	42	43	44	45	46
27	11	21	22	23	24	25	30	31	32	33	34	35	40	41	42	43	44	45	46	47
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36	20	30	31	32	33	34	39	40	41	42	43	44	49	50	51	52	53	54	55	56
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BOOK 1666

Base Line, Gila & Salt
River Base and Meridian

The instrument that I used in making this survey was manufactured by John Roach of San Francisco California, and was carefully examined and compared 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 5th day of December 1882. I set my instrument at the Initial Point of the Gila & Salt River Base and Meridian

Base line, through P. & W.

chain

examined it and found it correct. I took the Latitude and found it to be $33^{\circ} 23'$ North.

X
Survey commenced December 5th 1882.

From the Initial Point of the Gila & Salt River Base and Meridian, which is a monument of stones, on the summit of a rocky Hill on the South side of the Gila River opposite the mouth of Salt River and is circular in form about 8 ft. in diameter,

Base line through R. & W.

Chain

at Base, 4 ft at top and
8 ft. high with a post in
center projecting about 6 ft
above stone mound,

The monument is perpetuated
as follows

a stone set firmly in the ground
br N. W. 50 lbs dist.

a granite stone also firmly
set br N. E. 50 lbs dist.

a granite stone firmly set
br S. E. 50 lbs dist.

a granite also firmly set
br S. W. 50 lbs dist.

Rebuild and refix the
mound of stone, and
place it in a firm & solid
condition, the chain used

Base line through R. 1 W

chain

was carefully compared
with the Standard
in Tucson,

From the Initial Point
I run West on a true
line along South Bound-
ary of Sec. 36. T. 2. R. 1 W.
Var. $13^{\circ} 54' E$. as per observation
with Solar compass, and
Polaris.

Descend down S. W. slope of
Hill

10.00 Foot of Hill, & River Bottom

39.50 Left Bank of Gila River
course S. W. & N. E.

40.00 Water edge, I set a Nit
ness cor. one chain due
South, set a Post 3ft long

Base line through R. W.

chains

3 ins. square, with marked
stone 12 ins. in the ground
for ^{Witness} 1/4 sec. cor. marked ^{W.C.} 1/4
S. on N. face, dug pits 18x18
& 12 ins., E & W. 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.

68.00 Right Bank of Gila River
course N. W. & S 2 76°

80.00 This corner falls in the
River Bed set Witness
cor. 24 olks South. Set a
Post 4 ft. long 4 ins. square
with marked Stone 12 ins.
in the ground, for Stand
and cor. on the Base line
to Secs. 35 & 36. marked

Base Line through Red W.

chains

W. S. C. T. 1 W. R. 1 W. on W.

S. 36 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 2 ft. high, 4 1/2 ft.
base around post.

Surface level,

Soil 1st & 3d rate

Timber Mesquite Palo Verde,

& Cottonwood along River,

Undergrowth of Cats claw

& Arrow Brush.

West on a true line

Base Line through R. W.

chains

on S. By Sec. 35.

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

19.00 Left Bank of River to R. W.

 \angle S. E. 83°

21.00 Enter dead and fallen timber

40.00 Set a Post 3 ft. long 3 ins. square
with marked stone pins.in the ground ^{standard} for $\frac{1}{4}$ sec.cor. marked ^{std} $\frac{1}{4}$ 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.

80.00 Set a Post 4 ft. long 4 ins.

square, with marked

stone pins in the ground
for ^{standard} cor. to Secs. 34 & 35.

marked

Base line through R. W.

chains

S. C. S. 1 N. R. 1 W. on N.

S. 35 on E and

S. 34 on W. face, with 2
notches on E & 4 notches on
W. face, dug pits 18 x 18 x 12
ins. N. E. W. of post 5 1/2 ft.
dist. and raised a mound
of earth 2 ft. high, 4 1/2 ft.
base around post.

Land level

Soil 1st rate

Timber Mesquite & Palo Verde

Some cottonwood along River

Dense undergrowth of *Arundo donax*

2 m

West on a true line on
South By Sec. 34

Base Line through R. & W.

Chains

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

- 40.00 Set a Post 3 ft. long, 3 ins. sq. with marked stone 12 ins. in the ground, for Standard $\frac{1}{4}$ sec. cor. marked S. $6\frac{1}{4}$ S. on N. face, dug pits $18\frac{1}{2} \times 18\frac{1}{2}$ ins. 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.
- 57.00 Road to N & S.
- 68.80 Another Road to N. W & S. E.
- 74.40 Irrigating ditch across S. 40° W. enter cultivated land,
- 75.00 House of Pennoan to S. 150th
- 80.00 Set a Post 4 ft. long 4 ins. sq. with marked stone 12 ins. in the ground, for Stand

Base line through R. 1 W.

chain

and Cor. to Secs. 33 & 34,
 marked S.C. N.W. R. 1 W. in N.
 S. 34 on E. and
 S. 33 on W. faces, with 3 notches
 on E. 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
 2 ft high 4 1/2 ft. base around
 post

Surface level

Soil 1st rate

Timber dead and fallen
 Cottonwoods etc.

Dense undergrowth of
 Arrow & Catsclaw Bramb.

Base line through L. R. W.

Lains

West on a true line on
South By See. 33.

Var. $13^{\circ} 54' 18''$

300 Leave cultivated land &
dead timber.

12.15 Dry Wash 10 ft. deep, 150 lbs
wide course North

30.15 Dry wash 12 ft. deep, 20 lbs
wide, course North.

4000 Set a granite stone $18 \times 12 \times 8$
ins. pins in the ground
for Standard $1/4$ Sec. Cor.

marked S. C. $1/4$ on the face,
dug pits 18×18 pins. E. W.
of stone 5 ft. dist. and
raised a mound of
earth $1 \frac{1}{2}$ ft. high $3 \frac{1}{2}$ ft.
base alongside.

Base line through R. 1 W.

- | | |
|--------|--|
| claims | |
| 44.00 | Dry wash 10 ft. wide corner
N. 25° W. |
| 50.00 | Ascend over North end of
Mountain |
| 58.50 | Top about 150 ft. high by Sinter
Descend |
| 68.00 | Dry wash 15 ft. ^{deep} 30 ft. wide
corner S 20° W. ascend |
| 75.00 | Top of Mountain by N 20° W.
about 200 ft high. Descend |
| 80.00 | Set a granite stone 22 x 10 x 6
ins. 16 ins. in the ground
for Standard by to Secs.
32 & 33. marked S, C
with 4 notches on E & 2 notches
on W. edges, and raised
a mound of stone
alongside, Pit impracticable. |

Base line through R. 1 W.

chain

Surface broken except 5 chs
Soil 3^d rate
Dense undergrowth of Catalpa
& Arrow Brush.

^{one true line}
West, or South By Sec. 32
Var. 13° 54' E'

Descending.

4.00 Dry wash 18 ft. deep, 20 lbs
wide course N. 46° E'

Ascend over North end of
broken Mountains

13.00 Top to S. 65° E' 200 ft high

20.00 Descend

4.00 Foot of Mtn. Set a Granite
16 x 12 x 4 ins. 10 ins. in the
ground, for Standard 1/4 Sec.

Base Line through R. W.

Chairs

- Cor. marked S. C. $\frac{1}{4}$ on N. face, and build a mound of stone alongside, Pits impracticable
- 60.10 Dry wash 10 feet deep 200 lbs wide course North
- 66.50 Dry wash 15 feet deep 100 lbs wide, course N. 10° W.
- 70.00 Ascend on S. E. slope of Mtn.
- 80.00 Set a granite stone $22 \times 18 \times 6$ ins. High in the ground for Standard Cor. to Secs $3 \frac{1}{4}$ & 32, marked S. C. with 5 foot ches on Ex 1 notch on W. edge, and raised a mound of stone alongside Pits impracticable. Surface monuments

Base line through R. W.

chains

and very broken soil 3^d rate
 dense undergrowth of water-
 clover Paloverde & Arrowbush.

West on a true line, on
 S. By of Sec. 31.

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

Along S. slope of Mtn.

- 5.00 High Point of Mtn rocks North
 10.00 Descent along S. W. slope of Mtn.
 25.00 West end of Mtn thence
 over broken foothills.
 40.00 Set a granite stone 20x12x7
 15 ins. in the ground, for Stand-
 ard 1/4 Sec. Cor. marked
 S. C. 1/4 on N. face, and
 raised a mound of

Base line through R. & W.

chain

stone alongside, Pits impracticable

79.90 Dry wash 15 feet deep 25 lbs wide, course S. 10° E.

80.00 Set a granite stone 16 x 12 x 8 ins. 4 ins. in the ground for Standard Cor. to Sp.

1 North R. & 2 West. marked S. C. with 6 notches on N. & W. edges, and raised a mound of stone alongside, Pits impracticable
 Surface Hummocky & rocky
 Soil 3^d rate, Mesquite Palo Verde, & Greasewood
 Brush.

Dec. 5. 1882.

Base line through R & W.

chains

From the Standard Cor.
to Sp. 1 R. Rs 1 & 2 W. From
West on a true line, on
S. P. Sec 36.

Var. $13^{\circ}54'E$
as per observation with Solar
Compass, and Polaris.

7.00 Dry wash 15 feet deep. 20 lbs.
wide course N. $60^{\circ} W$.

11.00 Dry wash 25 lbs wide 10 ft deep.
course North

18.00 Dry wash 15 ft. deep. 30 lbs wide
course N. $20^{\circ} E$.

4.00 Set a granite stone $16 \times 12 \times 8$ ins.
11 ins. in the ground, ^{Standard} feet
see Cor. marked ⁵⁵ ft on
N. face, and raised a
mound of stone along.

Base Line through R. 2 W.

choins

side, Pits impracticable

64.00 Dry wash 15 feet deep. 30 lbs
wide, course N. 40° W.

Enter Valley, leave foothills.

79.00 Road Bear N. Ex S. W.

80.00 Set a post 4 ft. long, 4 ins
square with marked stone
12 ins. in the ground, for
Standard Cor. to Secs. 35 & 36
marked S. C. S. 1 N. R. 2 W. in N.

S. 36 on E. and

S. 35 on W. faces, with 1 notch
on Ex 5 notches on W. face,
dug pits 18 x 18 x 12 ins. N. Ex
W. of post 5 1/2 ft. dist. and
raised a mound of earth
2 ft. high 4 1/2 ft. base around
post.

Base Line through R. 2 W.

Lains

Surface broken & rocky 1st.
 64.00 chs. ^{Soil 3rd rate} last 16 chs level
 & Soil 1st rate

Scattering Mesquite & Palo Verde
 Dense Greasewood & Arrowbush.

West on a true line, on
 S. By of Sec. 35.

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

40.00 Set Post 3ft. long 3in. square,
 with marked Stone Pins.
 in the ground, for ^{Standard} $\frac{1}{4}$ Ele. Cor.
 marked $\frac{1}{4}$ S. on N. face, dug
 pits $18 \times 18 \times 12$ in. E. W. of
 Post 5ft. dist. and raised
 a mound of earth $1\frac{1}{2}$ ft.
 high $3\frac{1}{2}$ ft. base around post.

Base line through R 2 N.

chain

8000 Set a Post 4 ft. long, 4 ins. square, with marked star lines, in the ground, for Standard Cor. to Secs. 34 & 35. marked S. C. S. 1 N. R. 2 N. on N. S. 35 on E and

S. 34 on W. face, dug pit 18 x 18 x 12 ins. N. E. W. of post 5 1/2 ft. dist. and raised a mound of earth 2 1/2 ft. high. 4 1/2 ft. base around post.

Surface level

Soil strata x sandy

Scattering Mesquite &

Palo Verde

Thick undergrowth of Arrow
& Greasewood Brush.

Base line through R 2 W.

- | | |
|-------|---|
| chain | West on a true line on S.
By of Sec. 34.
Cor. $13^{\circ}54' E$ |
| 9.90 | Enter low Bottom
fro N. Ex S. W. 30° |
| 25.43 | Left Bank of Gila River
course S. 12° W. head of
Waterman's irrigating ditch
course S. 4° W. |
| 26.80 | Breast of dam fro N. 40° W. |
| 34.89 | Right Bank fro S. W. & N. E. 30° |
| 40.00 | Set a post 3ft. long, 3ins. sq.
with marked stone 12ins. in
the ground for Standard $\frac{1}{4}$
sec. cor. marked S. C. $\frac{1}{4}$ S. on
N. face, dug pits $18 \times 18 \times 12$
ins. Ex W. of post $5\frac{1}{2}$ feet. dist.
and raised a mound of |

Base line through R. 2 W.

chains

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

8000 Set about 4 ft. long 4 ins.
sq. with marked stone $2\frac{1}{2}$ in.
in the ground for Stand-
ard Cor. to Secs 33 & 34 marked
S. C. T. 1 N. R. 2 W. on N.

S. 34 on E. and

S. 35 on W. edge with 3
and outside of ground of earth $1\frac{1}{2}$ ft. base around post
notches on E & W edges, from
which Mesquite vines, dia. $\frac{1}{2}$ in. S. 18° E. 70 lbs dist.
marked S. C. T. 1 N. R. 2 W. ^{S. 3} B. T.

& Mesquite vines, dia. $\frac{1}{2}$ in. S. 20° W. 60 lbs dist.
marked S. C. T. 1 N. R. 2 W. S. 33 B. T.
no other tree within limit.

Surface level

Soil 1st rate

Dense undergrowth of Mesquite

Base line through R 2 W.

Chain

Arrows & Greasewood Bush
Cottonwood along River.

West on a true line on S. By
Sec. 33.

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

40.00 Set a Post 3 ft. long 3 ins. sq. with
marked stone 24 ins. in the
ground for Standard $1/4$ sec.
Cor. marked ^{S.C.} $1/4$ S. on N face from
which a Mesquite 8 ins. dia. br. N. $15^{\circ}E$. Col. & dist.
marked S. C $1/4$ S. B. D.

a Mesquite 12 ins. dia. br. S. $21^{\circ}W$. 71 lbs dist.
marked S. C $1/4$ S. B. D.

80.00 Set a Post 4 ft. long 4 ins. square
with marked stone 24 ins. in
the ground for Standard Cor.

Base Line through R. 2 W.

Chains

to Secs. 32 & 33. marked
S.C. N. 1 N. R. 2 W. on N.
S. 33 on E and

S. 32 on W. face, with 4 notches
on E & 2 notches on W. face,
from which a Mesquite 10 ins. dia. br. N. 40° E. 140 lbs. dist.
marked S.C. N. 1 N. R. 2 W. S. 33 B. T.

A Mesquite 7 ins. dia. br. S. 61° W. 192 lbs. dist.
marked S.C. N. 1 S. R. 2 W. S. 4 B. T.

A Mesquite 8 ins. dia. br. N. 42° W. 85 lbs. dist.
marked S.C. N. 1 N. R. 2 W. S. 32 B. T.

no other tree within limits.

Surface level

Soil sandy loam 1st rate

Number of Mesquite & Palo Verde

Dense undergrowth of Arrow &
Greasewood brush.

Base line through R 2 W.

Lains

West on a true line on S. By
of Sec. 32.

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

40.00 Set a Post 3 ft. long 3 ins. square,
with marked stone 12 ins. in
the ground, for Standard $1/4$
sec. cor. marked S. C $1/4$ 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 pit.

60.00 Road West.

62.00 Head Timber

80.00 Set a Post 4 ft. long, 4 ins.
square, with marked stone
12 ins. in the ground for
Standard Cor. to Sec. $3 \frac{1}{2}$ 32
marked S. C P. 1 N. R. 2 W. on N.

Base line through R. 2 W.

chains

S. 32 on E. and

S. 31 on W. faces, with 5
notches on E. & 1 notch on W.
faces, dug pits 18x18+ pins.N. E. W. of post 5 1/2 ft. dist.
and raised a mound of
earth 2 ft. high 4 1/2 ft. base
around Post.

Surface level

Soil set rate

Sense underground of
Greasewood & ArrowbushNest on a true line on South
By of Sec 31.

Var. 130 54' E.

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

Base line through R 2 W.

Lains

with marked stone 12 ins.
 in the ground, for Stand-
 ard $\frac{1}{4}$ Sec. Cor. marked $\frac{1}{4}$ S. ^{SC} $\frac{1}{4}$ S.
 on N. face, dug pits 18 x 18 x 12
 ins. Ex N. 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 Magnet 8 ins. dia. br. N 20° W. 80 lbs. dist.
 marked S. C. $\frac{1}{4}$ S. B. P.

8000

Set a Post 4 $\frac{1}{2}$ ft. long 4 ins. sq
 with marked stone 12 ins. in
 the ground, for Standard
 Cor. to Twp 1 N. R. 2 & 3 W.
 marked S. C. T. 1 N. on N.

R. 2 W. S. 31 on E and

R. 3 W. S. 36 on W. faces,
 with 6 watches on N. Ex N.

Base line through R 2 W.

Chains

faces, dug pits $24 \times 18 \times 12$ in.
 crosswise on each line, N. E.
 W. of post 6 ft. dist. and
 raised a mound of earth
 2 ft. high 5 ft. base around
 post, from which
 a Mesquite 10 in. dia. br. S. 41° W. 180 lb. ^{shot}
 marked P. 1. S. R. 3 W. S. 1 B. 1.
 Surface level
 Soil sandy 2^d rate
 Dense undergrowth Catclaw
 & Greasewood brush
 Scattering Mesquite.

I carefully examined the adjust-
 ments of my solar compass today,
 particularly the latitude & reversing
 apparatus and found them correct
 December 6th 1882.

Base Line through R. 3 W.

chains

From the Standard corner
to Sp. 1 R. R 2 & 3 W. 1 mm
West on a true line on S.
By of Sec. 36.

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

4000 Set a Post 4 ft long 3 ins. square
with marked stone 12 ins. in
the ground for Standard $1/4$
sec. Cor. marked $1/4$ S. on N.
face dug pits 18x18x12 ins.

Ex N. of post $5\frac{1}{2}$ ft. dist. and
raised a mound of earth
 $1\frac{1}{2}$ ft. high 3 ft. base, around
post.

8000 Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in
the ground, for Standard
Cor. to Sec. 35 & 36, marked

Base line through R. 3 W.

chain

S. C. N. 1 N. R. 3 W. on N.

S. 36 on E. and

S. 35 on W. face with notch
on E. 5 notches on W. face,
dug pits 18 x 18 x 12 ins. N. E.
W. of post 3/4 ft. dist. and
raised a mound of earth
2 ft. high 4 1/2 ft. base around
post.

Surface level

Soil Sandy and 2^d rate

Woods under growth of catalpa
& greasewood brush
Scattering Mesquite.

West on a true line on S.
By of Sec. 35.

Base line through R 3 W.

chains

Var. 13° 54' E!

30.20 Road to N. E. S. W. 80°

40.00 Set a Post 8 ft. long, 3 ins. square with marked stone 12 ins. in the ground, for ^{Standard} 1/4 sec. Cor. marked _{S.E.} 1/4 S. on N. face dug pits 18 x 18 x 12 ins. E. W. 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 Measuring line to N 40° E. 70 ft. dist. marked S. C. 1/4 S. B. T.

80.00 Set a Post 4 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. 1/4 N. R 3 W. on N. S. 35 on E. and

Base line through R. 3 W.

chains

S. 34 on W. face, with 2 notches
on E. 4 notches on W. face,
dug pits 18 x 18 x 12 ins. N. E.
& W. of post 5 1/2 ft. dist.
and raised a mound of
earth 2 ft. high 4 ft. base
around post.

Surface level

Soil 1st. rate

Timber scattering Mesquite
Horn undergrowth of Grease-
wood & Catclaw brush.

West on a true line on
South By of Sec. 34.

Var. 13° 54' E!

26.00 Road curve N. W. & S. E. 60°

Base line through R. 3 W.

chain

40.00

Set a Post 3 ft. long 3 ins. square with marked stone 12 ins. in the ground, for Standard $\frac{1}{4}$ sec. Cor. marked S.C. $\frac{1}{4}$ S. on N face, dug pits 18 x 18 x 12 ins. 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 Mesquite 12 ins. dia. to N. 150 W. 20 lks. dist. marked $\frac{1}{4}$ S. B. N.

62.53 Dug Wash 15 feet deep. 20 lks. wide course South.

80.00 ^{Set} Post 4 ft. long 4 ins. sq. with marked stone 12 ins. in the ground for Standard $\frac{1}{4}$ sec. to Secs 33 + 34. marked S.C. T. 1 N. R. 3 W. in N.

Base Line through R 3 W.

Claims

S. 34 on E. and

S. 33 on W. faces, with
3 notches on E. W. edges,
dug pits 18 x 18 x 12 ins. No. 8 x
W. of post 5 1/2 ft. dist. and
raised a mound 2 ft. high
4 1/2 ft. base around
Post, from which

a Mercurite 7 in. dia. br. S. 43° E. 192 Wood dist.
marked T. 18, R. 3 W. S. 3 B. 1,
Surface level

Soil sandy loam 1st rate
dense catclaw & Greasewood
brush.

Scattering Mercurite.

Dec. 6. 1882.

Base Line through R. 3 W.

Chains

West on a true line, over
South By. Sec. 33.Var. $13^{\circ}54'8''$

32.75 Dry Wash 10 lks wide course S. 70° E.

4000 Set a Post 3 ft. long 3 ins. square,
with marked stone 12 ins. in
the ground, for ^{Standard} $\frac{1}{4}$ sec. cor.
marked S. C $\frac{1}{4}$ S. on N face,
dug pits 18 x 18 x 1 ins. Ex W. of
post $3\frac{1}{2}$ 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 Mesquite 10 ins. dia. br. S 30° W. 80 lks dist.
marked ^{S.C} $\frac{1}{4}$ S. B. P.a Mesquite 8 ins. dia. br. N. 15° W. 90 lks dist.
marked S. C $\frac{1}{4}$ S. B. P.8000 Set a Post 4 ft. long 4 ins. sq.
with marked stone 12 ins. in the

Base line through R. 3 W.

chains

ground, for Standard Cor. to
Secs. 32 & 33, marked

S. C. N. 1 N. R. 3 W. on N.

S. 33 on E. and

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

dug pits 18+18+12 ins. ^{N.} Ex W. of
post 5 1/2 ft. dist. and raised

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

from which a Mequit 8 ins. dia. by S. 28° E. 174 lbs. dist.

marked S. N. S. R. 3 W. S. 4 B. T.

Surface level

Soil 1st rate

Scattering Mequite

Dense Grass wood & Catclaw
bush

Base line through R. 3 W.

chain

West on a true line, on S. By
of Sec. 32.

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

40.00

Set a post 3 ft. long 3 ins. sq. with
marked stone 12 ins. in the
ground for Standard $\frac{1}{4}$ sec.
Cor. marked S. C. $\frac{1}{4}$ S. on N.
face, dug pit $18 \times 18 \times 12$ 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.

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. N. 1 N. R. 3 W. on N.
S. 32 on E. and
S. 31 on W. faces, with 3 stakes.

Base Line through L. R. 3 W

chains

on Ex 1 notch on W. faces,
 dug pits $18 \times 18 \times 1$ in. Ex W.
 of post $5 \frac{1}{2}$ ft. dist. and
 raised a mound of earth
 2 ft high $8 \frac{1}{2}$ ft. base around
 post.

Surface level

Soil sandy and 1st rate
 dense undergrowth of Mesquit
 Greasewood & Ironwood
 Brush.

Met on a true line on South
 By of Sec. 31.

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

4000 Set a Post 3 ft. long, 3 in. sq.
 with marked stone 12 in.

Base line through R. 3 N.

Line

in the ground for Standard 1/4 sec. Cor. marked S. C. 1/4 S. on N. face, dug pits 18x18x12 ins. E. W. 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.

8000

Set a Post 4 1/2 ft. long 4 ins sq. with marked stone pins in the ground for Standard Cor. to Sps 1 N. R. 3 & 4 N. marked

S. C. S. 1 N. on R.

R. 3 N. S. 31 on E. and

R. 4 N. S. 36 on W. face, with 6 notches on N. E. W. face, dug pits 24x18x12 ins. crosses on each line N. E. W. of

Base line through R. 3 W.

chain

post 6 ft. dist. and raised a mound of earth $2\frac{1}{2}$ ft. high
5 ft. base around post.

Surface level

Soil sandy loam & 1 strata

Scattering Mesquite
dense undergrowth.

Base Line through R. 4 W.

Chains

From the Standard cor.
to Sp^{1st} 3rd 4 W. 2nd mile.
West on a true line on S.
By of Sec. 36.

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

40.00

Set a Post 3 ft. long 3 ins. sq.
with marked stone pins in
the ground for Standard 1/4
sec. cor. marked S.E. 1/4 S.
on N. face dug pits 18 x 18 ins.
in. Ex N. of post 5 ft. dist.
and raised a mound of earth
1 1/2 ft. high 3 ft. base around
post.

80.00

Set a Post 4 ft. long 4 ins. sq.
with marked stone pins in
the ground for Standard cor.
to Secs. 35 & 36. marked

Base line through R. 4 W.

Chains

S. E. N. 1 N. R. 4 W. on N.
 S. 36 on E. and
 S. 35 on W. faces with
 notch on E. 5 notches on
 W. edges, dug pits 18 x 18 x 12
 ins. E. W. of post 3/4 ft.
 dist. and raised a mound
 of earth 2 ft. high 4 1/2 ft.
 base around post.
 Surface level
 Soil sandy and 1st rate
 dense Arrow & Greasewood
 brush.

West on a true line, on
 S. By of Sec. 35.

Var. 13° 54' E.

Base Line through R. 4 W.

chain
4000

Set a Post 3 ft. long, 3 ins. sq. with marked stone pins in the ground, for Standard $1/4$ sec. cor. marked S. C $1/4$ S. on N. face, dug pit 18x18x12 ins. E. W. of post 5 $1/2$ ft. dist. and raised a mound of earth $1/2$ ft. high 3 $1/2$ ft. base, around post.

8000

Set a Post 4 ft. long, 4 ins. sq. with marked stone pins in the ground, for Standard Cor. to Secs. 34 & 35. marked S. C. N. 1 N. R. 4 W. on N. S. 35 on E. and S. 34 on W. face, with 2 notches on E. & 4 notches on W. face, dug pit 18x18x12 ins. E. W. of post, 3 $1/2$ ft. dist. and

Base line through P. 4 W.

chains

raised a mound of earth
2 ft. high $4\frac{1}{2}$ ft. base around
post.

Surface level

Soil gravelly & 2^d rate
Herse undergrowth of
Arrow & Guesewood brush.

West on a true line on
South By. of Sec 34.

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

40.00 Set a Post 3 ft. long 3 ins. sq.
with marked stone pins in
the ground for Standard
 $\frac{1}{4}$ Sec. bur. marked S. E. $\frac{1}{4}$ Sec.
on N. side dug pits 18" & 18" x 12"
ins. E. W. of post $5\frac{1}{2}$ ft.

Base Line through R. 4 W.

Lains

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 in.
square, with marked stone
12 in. in the ground, for
Standard Cor. to Secs.

33 & 34. marked

S. C. P. 1 N. R. 4 W. on N.

S. 34 on E. and

S. 33 on W. faces, with 3
notches on E & W. faces, dug
pits $18 \times 18 \times 12$ in. N. E. W.

of Post $5\frac{1}{2}$ ft. dist. and
raised a mound of earth
 2 ft. high $4\frac{1}{2}$ ft. base around
post.

Surface level

Base line through P. 4 W.

Lines

Soil 2^d rate

Scuse under growth of
Arrow & Greasewood brush.

West on a true line, on S.

By of Sec. 33.

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

4000 Set a Post 3 ft. long, 3 ins. sq.
with marked stone 12 ins. in
the ground, for Standard $1/4$ Sec.
br. marked S. $E 1/4 S.$ on N.
face, dug pits $18 \times 18 \times 12$ ins.

At W. 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?

8000 Set a Post 4 ft. long 4 ins. sq.

Base Line through R 4 W.

Lains

with marked stone pins.
in the ground, for Standard
Cor. & Sec. 32 & 33. marked
S. C. R. 1 N. R. 4 W. on N.
S. 33 on E. and

S. 32 on W. faces, dug pits
18 & 18 & 12 in. N. & W. of posts

5/8 ft. dist. and raised a
mound of earth 2 ft. high
4/8 ft. low, around Posts

Surface level

Soil Sandy & 2^d rate

Heavy catclaw & Yucca
wood Brush.

West on a true line on
South By of Sec. 32.

Base Line through R 4 W.

chains

Var. 130 54' E!

- 18.53 Dry Wash 15 feet deep. 43 lbs wide
course South.
- 40.00 Set a Post 3 ft. long, 3 ins. sq.
with marked stone 12 ins.
in the ground, for Standard
 $\frac{1}{4}$ Sec. Cor. marked S. C. $\frac{1}{4}$ S.
on N face, dug pits 18 x 18 x 12
ins. 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.
- 56.55 Large trail course N.S.
- 73.74 Dry wash 16 feet deep, 15 lbs
wide course S.
- 80.00 Set a Post 4 ft. long, 4 ins.
sq. with marked stone 12
ins. in the ground, for

Base line through R 4 N.

chain

Standard Cor. to Seco. 31 & 32.
marked S. C. P. 1 N. R 4 N. on N.
S. 32 on E. &

S. 31 on W. face, with 5 notches
on E. & 1 notch on W. edge,
dug pit 18" x 18" x 2 ins. N. E. W.
at post 5/4 ft. dist. and raised
a mound 4 feet high
4 1/2 ft. base around post.

Simple level

Soil sandy & 2^d rate.

Scuse undergrowth & cat-
claw, & Greasewood brush.

West on c true line on S.

By of Sec. 31

Var. 13° 54' E

Base Line through R. 4 W.

Claims

4000 Set a Post 3 ft. long 3 ins. sq. with marked stone 12 ins. in the ground for Standard $\frac{1}{4}$ Sec. cor. marked S.E. $\frac{1}{4}$ S. on N. face, dug pit 18 x 18 x 12 ins. 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.

8000 Set a Post 4 ft. long 4 ins. square, with marked stone 12 ins. in the ground for Standard cor. to R. 1 N. R. 4 x 5 West, marked S. 6. P. 1 N. on N. R. 4 W. S. 31 on E. and R. 5 W. S. 36 on W. face, with 6 notches on N. Ex W.

Base Line through R 4 W.

Lines

faces, dug pits 18 & 18 & 12 in.
crosswise on each line, N. E.
& W. of post 6 ft. dist. and
raised a mound of earth
2 ft. high 5 ft. base around
post.

Surface level

Soil sandy & 2^d rate
Dense undergrowth of
greasewood & catclaw
brush.

I carefully examined the
adjustments of my Solar
Compass to day, partic-
ularly the latitude and
reversing apparatus, and
found them correct.

Dec. 7. 1882.

Base Line through R 5 W.

chains

From the Corner to Ips
1 N. Rs 4 & 5 W. & Run
West on a true line on
S. By of Sec. 36.

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

- 4000 Set a post 2 ft. long 3 ins. sq.
with marked stone 12 ins. in
the ground for Standard
4/4 sec. cor. marked S. C.
1/4 S. on N face, dug pits
18 x 18 x 12 ins E & W. of post
5/8 ft. dist. and raised a
mound of earth 1/2 ft.
high 3/4 ft. base around post.
- 41.70 Dug wash 10 feet ^{deep 40 lbs} wide across ^{S. 4/4 sec.}
- 8000 Set a Malpais rock 16 x 10 x 5
ins. 11 ins. in the ground, for
Standard. Cor. to Secs. 35 & 36.

Base Line through R 5 W.

Lains

S. C.

marked with 1 notch on E.
 & 5 notches on W. edges, dug
 pits 18 x 18 x 12 ins. N. E. & W.
 of stone 5/8 ft. dist. and
 raised a mound of earth
 2 ft. high 4/8 ft. base along
 side.

Surface slightly rolling
 Soil gravelly & 2^d rate
 Dense undergrowth of
 Catalpa & Greasewood bush.

West on a true line on S. Ry
 of Sec. 35.

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

4000 Set a Post 3 ft. long 3 ins. sq.
 with marked stone 12 ins.

Base Line through R 5 W.

Stations

in the ground, for standard
 1/4 sec. bar. marked S. C. 1/4 S. on N. face
 dug pits 18 x 18 x 12 ins. Ex W. of post
 5 1/2 ft. dist. and raised mound of
 earth 1 1/2 ft. high 3 1/2 ft. base around post

71.30 Hesseys ampe creek 20 ft deep rocks wide
 hrs S. 15 E no water

78.00 Ascend mesa 60 ft. high. hrs N. S.

80.00 Set a Malpais rock
 16 x 12 x 10 ins. 11 ins. in the
 ground for Standard bar.
 6 Secs. 34 x 35. marked
 S. C. with 2 notches
 on Ex 4 notches
 on West edges, dug
 pits 18 x 18 x 12 ins. N.
 Ex W. of stone 5 1/2
 ft. distant and

Base Line through R. 5 M.

chains

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

78 chs land level soil 1st rate

2 chs Mesa Soil 2^d rate

Use Cateclaw & Palo-

Norde, & Grease wood brush.
 scattering Mesquite along Hesseyaup
 creek.

West on a true line on S. By
 of Sec. 34.

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

39.33 Road course S. E. x N. $W 11^{\circ}$

4000. Set a Post 2 ft. long 2 ins. sq. with
 marked stone 12 ins. in the ground
 for Standard 1/4 Sec. 603 marked
 S. C. 1/4 S. on N. face dug pit
 18 x 18 x 12 ins. Ex W. of post 37 1/2 ft.

Base Line through R. 5 W.

chains

dist and raised a mound of earth $1\frac{1}{2}$ ft. high $3\frac{1}{2}$ ft. base around post.

80.00

Set post 4 ft. long, 4 ins. sq. with marked stone 12 ins. in the ground, for Standard Cor. to Secs. 33 & 34, marked S. C. N. W. R. 5 W. on N. S. 34 on Ex

S. 33 on W. face, with 3 notches on Ex W. face, dug pits $18 \times 18 \times 12$ ins. N. Ex W. appost $5\frac{1}{2}$ ft. dist. and raised a mound of earth 2 ft. high $4\frac{1}{2}$ ft. base around post.

Sand level Mesa

Soil 2^d rate

Base Line through L. R. 5 W.

chain

Dense undergrowth of Cat-
claw & Palo verde, &
Greasewood brush.

West on a true line on S.
By of Sec. 33.

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

4000 Set a Post 3 ft. long, 3 ins. sq.
with marked stone pins in
the ground, for Standard $\frac{1}{4}$
Sec. Cor. marked S. $\frac{1}{4}$ S. on
N. face, dug pits $18 \times 18 \times 12$ in.
Ex N. of post 5 ft. dist.
and raised a mound of earth
 $1\frac{1}{2}$ ft. high 3 ft. base around
post.

8000 Set a Post 4 ft. long 4 ins. sq.

Base Line through R. 5 W.

chains

with marked stone 12 ins. in the
 ground, for Standard Cor. to
 Secs. 32 & 33, marked
 S. C. P. 1 N. R. 5 W. on 9.
 S. 33 on E &
 S. 32 on W. faces, with 4
 notches on E & 2 notches on
 W. faces, dug pits 18 x 18 x 12
 ins. E & W. of post 5 1/2 ft.
 dist. and raised a mound
 of earth 2 ft. high 4 1/2 ft.
 base around post.
 Surface level
 Soil gravelly & 2^d rate
 Arrow brush greasewood
 & Palo Verde.

Base line through R 5 N.

Chadus

West on a true line, on S. Ry
of Sec. 32.

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

29.68 Road course W.S.

40.00 Set a Post 2 ft. long 3 ins. sq. with
marked stone extens. in the ground
for Standard $\frac{1}{4}$ sec. cor. marked
 $\frac{1}{4}S.$ on N. face, from which
a Paloverde 10 ins. dia. 135 lbs. dist.
marked S. C. $\frac{1}{4}S.$ B. T.

a Paloverde 6 ins. dia. 219 lbs. dist.
marked S. C. $\frac{1}{4}S.$ B. T.

48.40 Dry wash 10 ft. deep ^{20 lbs. guide} 135 lbs. dist. $10^{\circ}E$.

71.94 Road course W.S.

79.20 Dry wash 10 ft. deep 18 lbs. wood course South

80.00 Set a Post 4 ft. long, 4 ins. square,
with marked stone 12 ins. in the
ground, for Standard cor. W. Sec.

Base Line through R. 5 W.

chains

31 + 32. marked S. C. T. 1 N. R. 5 W. on N.
 S. 32 on E. and S. 31 on W. faces,
 with 5 notches on E. 1 notch on
 W. faces, dug pits 18 x 18 + 12 in.

At W. of Post 5 1/2 ft. dist. and raised
 a mound of earth 4 ft. high 4 1/2
 ft. base around Post.

Surface Rolling.

Soil sandy + gravel 2^d rate
 Number of Mesquite Palo verde,
 and greasewood brush.

West on a true line on S. by of Sec. 31.

Cor. 13° 54' E.

5.0 dry Wash 1 ft. deep 18 lbs wide 400 South
 4000 Set a Post 2 ft. long 3 in. sq. with
 marked stone 12 in. in the ground

Base Line through R. 5 W.

200

for Stand. $\frac{1}{4}$ sec. bar. marked S. C. $\frac{1}{4}$ sec.
 on N. face, dug pit 18 x 18 x 12 ins Et W.
 of post 5 ft. dist. and raised a mound
 of earth $1\frac{1}{2}$ ft. high 3 ft. base around post.
 Set a Post 4 ft. long 4 ins. sq. with marked
 stone 12 ins. in the ground, for Standard bar.
 to Pps. 1 N. No 5 & 6 W. marked. S. C. P. 1 N. on N.
 R. 5 W. S. 31 on E. and R. 6 W. S. 36 on W. faces,
 with 6 notches, on N. Et W. faces, dug
 pit 24 x 18 x 12 ins, crosswise on each line
 N. Et W. of post 6 ft. dist. and raised
 a mound of earth $2\frac{1}{2}$ ft high 5 ft base around post.
 Surface rolling, Soil 2^d rate
 Dense Arrow, Greasewood & Catsclaw brush
 December 8th 1882.

I carefully examined the adjustments
 of my solar compass today, particularly
 the latitude and reversing apparatus
 and found them correct.

U. S. Surveyor General's Office,

TUCSON, ARIZONA,

February 21, 1882,

The foregoing Field Notes of the Survey of the

Base Line

West from Initial point through
Ranges, 1, 2, 3, 4 & 5 West,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 beencritically examined and the necessary corrections and explana-
tions made, the said Field Notes and the surveys they describe
are hereby approved.

J. W. Post
Surveyor General.