

(2)

NP GUIDE MERIDIAN
— THROUGH —

~~TPS 25 26 27 28 29 30 31 32~~
— NORTH —

SECT. RANGES 8-9 E

1729

CONTRACT - 90

PHILIP CONTZEN

U.S. DEP. SUR

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6221

BOOK 1729

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1729

Field Notes 1729

1
1

BOOK 1729

of the survey of the
Second ~~Ends~~ Meridian East
Through
Townships Nos. ~~25, 26, 27, 28, 29, 30, 31~~
~~and 32 North~~
Between Ranges 8 and 9 East
of the
Gila and Salt River Basal and Meridian
in the
Territory of Arizona
As surveyed by
Philip Putnam
U. S. Deputy Surveyor
Under his contract No. 90
Dated December 16, 1901.

Survey commenced August 6, 1902
Survey completed August 8, 1902.

2

Preliminary Oaths of Assistants.

We, *J. M. Trayer, A. G. Aikin*
and *Wm B. Alexander & J. J. Herrick*

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

us, in the survey of the *6th Standard Parallel North Range 8 East - 2nd Guide Meridian East between Ranges 8-9 East - Tps 25, 26, 27, 28, 29, 30, 31 & 32 N. - 8th Standard Parallel North Ranges 9-10-11 & 12 E - Section of 3rd Guide Meridian E. - Extension of Tps 31 & 32 N. - R's 10-11 & 12 E - Subdivisional Lines of Tps 31 & R. 11 E - Tps 32 N. R's 10-11 E - T. 33 N. R. 10 E.*

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

John M. Trayer Chainman.
A. G. Aikin Chainman.
Wm B. Alexander Chainman.
J. J. Herrick Chainman.

BOOK 1729

Sworn and subscribed before me, this *First*

day of *August* 190*2*

Sham as a Notary

Notary Public.

[SEAL.]



my commission expires *Jan'y 11-1903.*

We, *Chas. M. Pogue*

J. J. Falvey

BOOK 1729

3

do solemnly swear that we will well and truly perform the duties of *flagman & axeman*

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 *6th Standard Parallel* North Range 8 East - 2nd Guide Mer. East between Ranges 8 & 9 E. Tps 25, 26, 27, 28 29, 30, 31 & 32 N. - 8th Standard Parallel North Ranges 9-10-11 & 12 E. Portions of 5th Guide Meridian E. - Extension of Tps 31-32-33 N. - R's 10-11-12 E - Subdivisional lines of Tps 31 & 32 R. 11 E Tps 32 N. R's 10-11 E - T 33 N R. 10 E

of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Chas M Pogue Flagman.

J. J. Falvey Axeman.

Axeman.

Axeman.

Subscribed and sworn to before me this

August 2

190

Thomas A. Porter

Notary Public.

my commission expires
Jan'y 11-1903.



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2ND G. MER. E.

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End Under Meridian East, through
Chains

Survey commenced August 6, 1902,
and executed with a Young and Sons
light mountain transit No 5207, the
horizontal limb being provided with
two opposite mirrors reading to 30"
of arc.

Begin at the standard cor of Spgs
25 N, Pos 8 and 9 E, as heretofore
described, in latitude $35^{\circ} 31' N$
longitude $111^{\circ} 26' W$, at 10.27
p.m. by my watch, which is correct,
Polaris Solaris at eastern elonga-
tion in accordance with instructions
in the manual, and mark the line
thus determined by a tack driven in
a wooden plng set set in the
ground five chains north of my
station.

Line 25-N. between Co. 8 and 9 E-
Chains

August 7 1902. At 8.30 a m. I
turn off the azimuth of Solaris
1.39' to the West and mark the
true meridian thus determined by
cutting a mark on a stone firmly
set in the ground west of the
mark established last night. The
magnetic bearing of said true meri-
dian is $74^{\circ}44'W$, which reduced
by the table on page 100 of the
manual gives the mean magnetic
declination $14^{\circ}44'E$.

From the standard ev. I run
North bet sees 31 and 36
Over rolling land

Through heavy cedar timber
Road flagstaff to same well NE & SW

Difference between measurements of
4000 chs by two sets of chains is
8 lbs, position of middle point

10.00

2nd Guide Meridian East, through
ChainsBy 1st set 40.04 chsBy 2nd set 39.96 chs, the mean of
which is

40.00 Set a malpais stone 18 x 10 x 7 ins, 12
ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 36 on N and 31 on E
faces, from which a erdar 8 ins
diam, bears N $64\frac{1}{2}^{\circ}$ E, 100 chs dist,
marked $\frac{1}{4}$ S 31, B.S.

A erdar 6 ins diam, bears N. 42° W,
35 chs dist, marked $\frac{1}{4}$ S 36 B.S.

60.00 Ascend

64.00 Top of ridge, bears N. Westerly and
S. Easterly

75.00 Descend

Difference between measurements of
50.00 chs by two sets of chains is
6 chs position of middle point

By 1st set 49.97 chs

Shs 25 N, between Pos 8 and 9 E - continued
Chains

By 2nd set 8.00 chs, the mean of
which is

8.000 Set a malpais stone $20 \times 10 \times 8$ ins
14 ins in the ground, for cor of sides
25, 30, 31 and 36, marked with 5
notches on N. and one notch on S
edges, from which a rod 12 ins
diam bears N 56° E, 21 lbs dist, marked
S 25 N, R 9 E, S 30 B. D.

(A rod 24 ins diam, bears S 29° E,
130 lbs dist, marked S 25 N, R 9 E,
S 31 B. D.

A rod 24 ins diam, bears S 29° N,
57 lbs dist, marked S 25 N, R 8 E,
S 36 B. D.

A rod 24 ins diam, bears N 48° N,
268 lbs dist, marked S 25 N, R 8 E,
S 25 B. D.

Land, rolling

2nd/3rd Meridian East, Strong
Chains

Soil volcanic cinders, 4th rate.
Timber, cedar
Vernally timbered land 8.00 chs

North, bet sres 25 and 30

Over rolling land
Descending through heavy cedar timber

9.00 Srt bars East and West
24.67 Old stone mins on line
33.00 Descend

Difference between measurements of
4.00 chs by two sets of chains is 10
chs, position of middle point

By 1st set 39.95 chs
By 2nd set 40.05 chs, the mean of
which is

40.00 Srt a malpais stone 20 x 12 x 10 ins
14 ins in the ground, for $\frac{1}{4}$ sre cor,
marked $\frac{1}{4}$ 25 on W and 30 on E

Dec 25 - A between Pos 8 and 9 E - Continued
Chains

faers, from which a rod of 12 ins
diam, bears N 23° E, 154 lbs dist,
marked $\frac{1}{4}$ S 30, B. S.

A rod of 12 ins diam, bears S 89° W, 89
lbs dist, marked $\frac{1}{4}$ S 25 B. S.

55.00 Post, bears Easterly and Westerly

61.00 Begin ascent of ridge

77.00 Post, bears N. Easterly and S.
Westerly

Difference between measurements of
8000 chs, by two sets of chainmen is
8 lbs, position of middle point

By 1st set 8004 chs

By 2nd set 7996 chs, the mean of
which is

8000 Set a malpais stone 18x12x12 ins, 12
ins in the ground, for cor of sets
19, 24, 25 and 30, marked with 4
notches on N, and 2 notches on S

Line under Meridian East, through
Chains

fares, from which a cedar 12 ins diam,
bars $N 80\frac{1}{2}^{\circ} E$, 136 lks dist, marked
S 25 N, R 9 E, S 19 B.S.

A cedar 14 ins diam, bars $S 31^{\circ} E$, 40
lks dist, marked S 25 N, R 9 E S 30 B.T.

A cedar 10 ins diam, bars $S 62^{\circ} W$, 123 lks
dist, marked S 25 N, R 8 E, S 25 B.T.

A cedar 24 ins diam, bars $N 47\frac{1}{2}^{\circ} W$ 82
lks dist, marked S 25 N, R 8 E S 24 B.S.

Land, rolling and level

Soil, generally and volcanic cinders
3rd and 4th rate

Timber, cedar

Heavily timbered land 8000 lbs

North lot sees 19 and 24

Over gently rolling land

Through heavy cedar timber

7.00 Land heavy timber and aspen

Dec 25th N. between Res Sand & E-Continued
Chains

19.00 Set bars N. N. Westerly and S. S.
Easterly

32.00 Duvend

37.00 Set bars Easterly and Westerly
Difference between measurements of
4.00 chs by two sets of chains is
8 lbs, position of angle point
By 1st set 4.004 chs
By 2nd set 3.996 chs, the mean of
which is

4.000 Set a malpais stone $18 \times 12 \times 8$ ins, 12
ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 24 on W and 19 on E faces,
from which a cedar 12 ins chain
bars S $57 \frac{3}{4}^{\circ}$ E, 134 lbs dist, marked
 $\frac{1}{4}$ S 19 B. D.

A cedar 14 ins chain, bars S $16 \frac{1}{4}^{\circ}$ W,
243 lbs dist, marked $\frac{1}{4}$ S 24 B. D.

68.20 Old stone - mine on line

End of Meridian East, through
Charles

74.00

Old crater, base 1 ch N.

This crater is about 9 chs from north to south, 6 chs from east to west and 250 ft deep.

Difference between measurements of 8.000 chs by two sets of chainmen is 4 chs, position of middle point.

By 1st set 79.98 chs

By 2nd set 8.002 chs, the mean of which is

8.000

Set a volcanic stem 18x10x7 ins, 12 ins in the ground, for ev of sves

2

18, 18, 19 and 24, marked with 3 notches

ev N, and S ^{ledge} and raise a ^{from which a cedar 36 ins diam bears 25° W, 158 chs dist} mound of 3 in 2 ft base 1 1/2 ft high

W of ev. Pits impracticable.

This ev stands 60 ft from N edge of crater.

Land, level, rolling and broken

Apr 25 N, between Rs 8 and 9 E-continued
Chainis

Soil, gravelly, rocky and volcanic
cinders

Spindle, cedar

Wetland timbered land, 7.00 chs.

August 7, 1902.

North, bet sees 13 and 18

Over broken ground

Along N slope of rocky bank

6.00 D. wood

12.00

Foot bars N, Eastern and S
Western and enter heavy cedar
timber

Difference between measurements
of 4.00 chs by two sets of chainis
is 12 lbs, position of middle
point

By 1st set 39.94 chs

By 2nd set 40.06 chs, the mean of

2nd Grade Meridian East, through
Chain

which is

40.00 Set a calcareous stone 18 x 14 x 8 ins
12 ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 13 on W and 13 on E
sides, from which a cord 12 ins diam
bars S $25^{\circ} 2'$ E, 133 lbs dist, marked $\frac{1}{4}$
S 18 B.S.

A cord 6 ins diam, bars S 35° W,
100 lbs dist, marked $\frac{1}{4}$ S 18 B.S.

58.00 Square heavy timber, bars N.E. and
S.W.

66.00 Sound

72.00 Sop, bars Easterly and Westerly
Difference between measurements
of 8000 chs, by two sets of chains
is 10 chs, position of middle point
By 1st set 8005 chs

By 2nd set 79.95 chs, the mean
of which is

Apr 25 - N Return Res 8 and 9 E-Continental

Chains
8.00

Set a malpais stone 18 x 10 x 8 ins,
12 ins in the ground, for cor of
ores 7, 12, 13 and 18, marked with
2 notches on N and 4 notches on S
edges, dig pits 18 x 18 x 12 ins, in each
ore, 4 ft dist, and raise a mound
of earth 4 ft base, 2 ft high, W
of ore.

Round burl, rolling and broken
Soil, gravelly, volcanic cinders
and rocky; 3rd and 4th rate
Timber cedar

Gravelly timbered land, #1.00 chs.

North bet ores 7 and 12.

Over gently rolling land

17.00 Descend

28.00 Foot of descent, bears N. Easterly
and S. Westerly and enter valley
bears N. Easterly and S. Westerly

2nd Guide Wadihan East, through
Chains

Difference between measurements of
4000 chs by two sets of chain, is
8 lbs, position of zindak point

By 1st set 40.04 chs

By 2nd set 39.96 chs, the mean of
which is

4000 Set a malpais stone $18 \times 8 \times 8$ ins
12 ins in the ground, for $\frac{1}{4}$ sec cor,
marked $\frac{1}{4}$ 12 on N and 7 on E faces,
from which a rod or 12 ins chain
runs S 21° E, 159 lbs dist, marked
 $\frac{1}{4}$ S 7 B.S. dig pits $18 \times 18 \times 12$ ins,
N. and S. of stone, 3 ft dist, and
raise a mound of earth $3\frac{1}{2}$ ft base,
 $1\frac{1}{2}$ ft high, N of cor.

46.00 Rocky point, bears 1 ch E

55.30 Leave valley and ascend

59.00 Top of mesa, bears Easterly and
Westerly

Apr 25 - N between Pt 8 and 9 E-Continued

Chains
62.00 Old stone ruins from 1 ch E; edge
of mnd bars 2 chs E.

63.10 Pinner 10 lbs wide, 30 ft deep, bars
N. Westerly, and S. Easterly

78.00 Dismant abruptly 20 ft

79.28 Dismant abruptly 20 ft and enter
valley, bars N. Westerly and S.
Easterly

Difference between measurements of
8000 chs by two sets of chainmen is
12 lbs, position of middle point.

By 1st set 79.94 chs

By 2nd set 80.06 chs, the mean of
which is

80.00 Set a sandstone 18 x 12 x 8 ins, 12 ins
in the ground, for cor of secs, 1, 6,
7 and 12, marked with 1 notch
on N and 5 notches on S. edges,
and raise a mound of stone 2 ft

2nd kind Meridian East, through
Chains

base, 1 1/2 ft high, N. of cor. Pts
impracticable.

Land level and broken
Soil, gravelly, volcanic cinders and
rocky, 3rd and 4th rates.
Timber, scattering cedar

North, bet sres 1 and 6.

Over level land

Difference between measurements of
4000 chs by two sets of chains is
4 chs, position of middle point.

By 1st set 4000 chs

By 2nd set 3998 chs the mean of
which is

4000 Set a sandstone 14 x 8 x 6 ins, 12 ins
in the ground, for 1/4 sec cor, marked
1 on N. and 6 on E faces, from
which a cedar 18 ins chain bars

Sts 25 N, between Rs 8 and 9 E - bunch of

Chains

N 22 1/4° E, 83 lks dist, marked 1/4
S 1 B. S.

A cedar 24 ins diam, bears N 85° W,
74 lks dist, marked 1/4 S 1 B. S.

41.00 Cross valley and ascend

47.00 Top, bears N. Westerly and S.
Easterly; thence over gently rolling
land.

Differed between measurements of
8000 chs by two sets of chains in
106 lks, position of middle point.

By 1st set, 80.03 chs

By 2nd set 79.97 chs, the mean of
which is,

80.00 Set a limestone 18 x 12 x 8 ins, 12 ins
in the ground, for cor of Sts 25
and 26 N, Rs 8 and 9 E, marked
with 6 notches on each edge,
and raise a mound of stone 2 ft

2nd Grade Meridian East, through
Chains

base, 12 ft high, S of cor. Pits im-
practicable.

Land level and rolling
Soil, granully and volcanic cinders
3rd 4th rate.

Timber, scattering cedar.

August 8, 1902.

~~2nd Grade, Meridian East, through
Nos 26 N, between Nos 8 and 9 E.~~

~~North bet ores 31 and 36.~~

~~Over gently rolling land~~

~~Difference between measurements of
4000 chs by two sets of chainmen is
6 chs, position of middle point~~

~~By 1st set 4003 chs~~

~~By 2nd set 3997 chs, the mean of
which is~~

List of Names.

BOOK 1729

23

A list of the names of the individuals employed
by ... Philip ...

U S. Deputy Surveyor, to assist in running, measuring
and marking the lines and corners described in the forego-

ing Field Notes of the survey of the 6th Standard
Parallel North - Range 8 East -
2nd Guide Meridian East between
Ranges 8-9 East - Tps 25-26-27-28-29

By 1st ort, 8005 chs 21
 By 2nd ort, 7995 chs, the mean of which is
 8000 Set a sandstone 20x14x7 ins, 14 ins in th.
 ground, for closing cor of S 32 N, R 8 on
 9 E, marked
 C 6, S 32 on S,
 16 9 E on E, and
 R 8 E on W faers, with 6 frowes on E
 and W faers, and raise a mound of
 2 ft base, 1 1/2 ft high, S of cor. Pitts in prae
 From this cor draw Francisco mark by
 S 10.50' N; Zichovichkielchly mark by
 S 32 E.
 Land rolling

List of Names.

BOOK 1729

23

A list of the names of the individuals employed
by Philip Coitzen

U S. Deputy Surveyor, to assist in running, measuring
and marking the lines and corners described in the forego-

ing Field Notes of the survey of the 6th Standard
Parallel North - Range 8 East -
2nd Guide Meridian East between
Ranges 8 & 9 East - Tps 25-26-27-28-29
30-31 & 32 N. - 8th Standard Parallel
North R's 9-10-11 & 12 E - Portion of
3rd Guide Meridian E. - Extensions
of Tps 31-32 & 33 N. R's 10-11-12 E
and divisional lines of Tps
31 N. R. 11 E - Tps 32 N N R's 10-11 E
T. 33 N. R. 10 E

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, showing the respective capacities in which
they acted.

J. M. Trayer Chairman.

A. G. Aiken Chairman.

Wm. B. Alexander Chairman.

J. J. Kerrick Chairman.

..... Axeman.

J. J. Talvey Axeman.

Chas. M. Pogue Flo

1



We hereby certify that we assisted...

Philip

Contzen..... U. S. Deputy Surveyor, in
surveying all those parts or portions of the *6th Standard*
Parallel North - Range 8 East - 2nd
Guide Meridian East between
Ranges 8 and 9 East - Tps 25-26-27-28-29
30-31-32 N. - Standard of Parallel North
R. 9-10-11-12 E. - Extensians of Tps
31-32-33 N. R. 10-11-12 - Portion of 3rd Range N. E.
7-8 N. R. 12-13 E. - Subdivisional line
of Tps 31 N. R. 11 E - Tps 32 N. R. 10-11 E
7-33 N. R. 10 E.

of the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, as are represented in the foregoing field
notes as having been surveyed by him and under his direc-
tion; and that said Survey has been in all respects, to the
best of our knowledge and belief, well and faithfully survey-
ed, and the corner monuments established according to the
instructions furnished by the United States Surveyor Gen-
eral for Arizona.

- John M. Trayer* Chainman.
- J. G. Aiken* Chainman.
- Wm. D. Alexander* Chainman.
- J. J. Farnick* Chainman.
- J. J. Falvey* Axeman.
- Chas. M. Payne* Axeman.
- Chas. M. Payne* Flagman.

Sworn and subscribed before me, this *South*
day of *Nov* 190*2*



Thomas A. Doster

Notary Public.

my commission expires
Jan'y 11-1903.

[L.]

Final Oath of U. S. Deputy Surveyor. 25

BOOK 1729

I, Philip Contzen

S. Deputy Surveyor, do solemnly swear that in pursu-
ce of a contract received from... Hugh H. Rice

United States Surveyor General for Arizona, bearing date
the 16th day of December, 1901.,

have well, faithfully, and truly, in my own proper person,
and in strict conformity with the instructions furnished by
the United States Surveyor General for Arizona, the Man-
ual of Surveying Instructions, and the laws of the United
States, surveyed all those parts or portions of the... 6th

Standard Parallel 41. - Range 8 East
and Guide Meridian East between
Tps 8-9 E. - Tps 25-26-27-28-29-30-31-32 N
the Standard Parallel North Rs 9-10-11-12 E
Exterior of Tps 31-32-33 N Rs 10-11-12 E
Portion of 3rd Guide Mer. E. -
subdivisional lines of Tps 31 N. R 11 E
Tps 32 N. Rs 10-11 E - T 33 N R 10 E

the Gila and Salt River Base and Meridian, in the Ter-
ritory of Arizona, as are represented in the foregoing Field
notes as having been surveyed by me and under my direc-
tion; and I do further solemnly swear that all the corners of
said surveys have been established and perpetuated in strict
accordance with the Manual of printed instructions, the
special instructions of the United States Surveyor-General
for Arizona, and in the specific manner described in the
field notes, and that the foregoing are the true Field Notes
of such survey; and should any fraud be detected I will

26 suffer the penalty of perjury, under the provisions of an act
of Congress approved August 8, 1846.

Philip C. ...
U. S. Deputy Surveyor

Sworn to and subscribed before me this... 10th...

day of *December*..... 1902



Leuitant D. Hoover,
clerk U.S. District Ct
First Judicial District
of Arizona.

BOOK 1729

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BOOK 123

Faint, illegible text, possibly bleed-through from the reverse side of the page. The text is mirrored and difficult to decipher.

W. H. [illegible]

A P P R O V A L.

Office of the
 United States Surveyor-General,
 Phoenix, Arizona.

Oct 13, 1903

The foregoing field notes of the survey of *the Second Guide Meridian East, through T. 25 N., bet. R. 8 and 9 East.* of the Gila and Salt River Base and Meridian, in the Territory of Arizona, executed by *Philip Centzen* United States Deputy Surveyor, under his contract No. *90*, dated *Dec. 16 1901* having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank A. Smith

U. S. Surveyor-General.