

6TH STANDARD PAR. N

R. 8 E.

Q

CONTRACT 90

PHILIP CONTZEN
U.S. DEP. SUR.

1731

BOOK 1731

1731

4-671

FIELD NOTES
GENERAL LAND OFFICE.

1731

^{Misc}
Copied E.V.

Compound
by H.P.

a/c checked J.M.B. & S.M.B. Nov. 6/03.

Note. B.P. to be marked S.C.

1731

BOOK 1731

Field Notes
of the survey of the
Sixth Standard Parallel North
through
Range 8 East
of the
Gila and Salt River Base and Meridian
in the
Territory of Arizona
so surveyed by
Philip Conzara
U. S. Deputy Surveyor

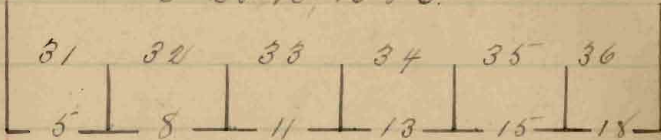
Under his contract No. 90
Dated December 16, 1901

Survey commenced August 2, 1902
Survey completed August 4, 1902

BOOK 1731

Index

R 25 W, R 8 E.



6th Standard Parallel N

Note = For "Cathi" see Book of
 Second Guide Mer. East, thro:
~~Tps. 25-26 27 28 29 30 31 32~~ North.

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Sixth Standard Parallel North
Chains

Survey commenced August 2, 1902
and executed with a Young and
Sons light mountain transit No. 5607.
The horizontal limb being provided
with two opposite verniers reading to
30" of arc.

Begin at the standard corner of
townships 25 north, ranges 7 and 8
east which is a stone marked and
witnessed as described by the surveyor
general. At this corner, in latitude
 $35^{\circ} 31' N$ longitude $111^{\circ} 34' 05" W$, at
 $10^{\text{h}} 44^{\text{m}}$ p.m. by my watch, which is
correct I observe Polaris at eastern
elongation, in accordance with in-
structions in the manual and
mark the line thus determined, by
a tack driven in a wooden plug
set in the ground five chains

through Range 8, East.

north of my station.

August 3, 1902. At 7 a.m. I turn
off the azimuth of Polaris $1^{\circ} 29'$
to the West, and mark the true
meridian (true determined by cutting
a mark on a stone firmly set in
the ground, West of the mark
established last night, the mag-
netic bearing of said true meri-
dian is $N 1^{\circ} 32' W$, which
deduced by the table on page 100
of the manual gives the mean
magnetic declination $14^{\circ} 28'$ East.

Thence I run

East, on S. bdy of sec 31.

Over gently rolling land.

- 2.05 Road from Flagstaff to Pinal City,
crosses Northwestly and Southwestly
- 8.00 Enter heavy cedar timber bars

Sixth Standard Parallel North
Chain

39.00

Northerly and Southerly
Large heavy timber, bears Northerly and
Southerly, and begin ascent S.W. slope
of mountain

Difference between measurements of
4000 chs by two sets of chainmen, is 8
chs position of middle point.

By 1st set 40.04 chs -

By 2nd set 39.96, The mean of
which is

4000: Set a malpais stone 18x10x8 ins 12
ins in the ground, for standard $\frac{1}{4}$ sec
cor, marked S.C. $\frac{1}{4}$ S 31 on N. face
from which a cedar 24 ins diam
bears N 70° W, 286 chs dist, marked
S.C. $\frac{1}{4}$ S 31. B.T. no other tree within
limit, and raise a mound of stone
2 ft base, 1 $\frac{1}{2}$ ft high, N. of cor.
Pits impracticable.

Through Range 8 East - Continued

- 53.30 Chain
Top of ridge, bears Northwly and Southwly
- 53.60 Descend
- 57.00 Foot, bears Northwly and Southwly
- 60.00 To end
- 62.00 Top, bears Northwly and Southwly
- 63.50 Descend
- 74.00 Foot, turned over rolling land
- Difference between measurements of 8000 chs by two sets of chain is 4 lbs, position of middle point.
 By 1st set 8002 chs
 By 2nd set 79.98 chs. The mean of which is
- 8000 Set a malpais stone 20x10x8 ins, 14 ins in the ground for standard cor of sres 31 and 32, marked S 6 on N, with 5 grooves on E, and 1 groove on W. face, dig pits

Sixth Standard Paralle North
Chains

24 x 18 x 12 ins, crosswise on each line
E. and W 3 ft, and N of stone 4
ft dist, and raise a mound of earth
4 ft base, 2 ft high, N. of cor
Land rolling and mountainous
Soil gravelly and stony; 3rd and
4th rate

Timber cedar.

Mountainous or heavily timbered
land 6000 chs.

East on S. by sec 32.

Over rolling land

through heavy cedar timber,

1500 Over heavy cedar timber, across N
and S

Difference between measurements of
4000 chs by two sets of chains
is 6 lbs, position of middle point.

Through Range 8 East - continued
 chains

By 1st set 4003 chs

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

4000 Set a malpais stone 18x10x6 ins, 12
 ins in the ground, for standard
 $\frac{1}{4}$ sec cor, marked S. C. $\frac{1}{4}$ S 32 on N.
 face. dig pits 18x18x12 ins, E.
 and W. 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.

44.00 Ground

53.00 Foot, and enter draw, course N.
 Easterly

58.00 Leave draw and ascend

64.00 Pop, bear N. Easterly and S.
 Westerly

Difference between measurements
 of 8000 chs by two sets of chainmen
 is 10 chs, position of middle point.

Sixth Standard Paralle North

chains

By 1st set 79.95 chsBy 2nd set 80.05 chs the mean of
which is

80.00

Set a malpais stone 24 x 10 x 5 ins
18 ins in the ground, for standard
cor of ores 32 and 33, marked S.C.
on N, with 4 grooves on E. and 2
grooves on W faces, from which
a cedar, 8 ins diam bears N 83° E,
121 lks dist marked P 25 N R 8 E,
S 33 B. P.

A cedar, 8 ins diam bears N 51½° W
131 lks dist marked P 25 N R 8 E,
S 32 B. P. and raise a mound of
stone 2 ft base, 1½ ft high, N of cor.
Land gently rolling
Soil, gravelly; good water.
Timber cedar.

Heavily timbered land, 15.00 chs

Through Range & East - Continued
Chains

East on S. by s. 33.

Over gently rolling land

8.00 Enter heavy cedar timber, bare
Northernly and Southernly

30.64 Road, from Flagstaff to Inba
City, bears N. N. Easterly and S. S.
Westerly

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

By 1st set 40.02 chs

By 2nd set 39.98 chs, the mean of
which is

4000 Set a malpais stone 18 x 10 x 7 ins,
12 ins in the ground for standard
 $\frac{1}{4}$ sec ea marked S. C. $\frac{1}{4}$ 33 on N.
face, from which a cedar 24 ins
diam, bears N 34° N, 42 chs dist.
marked ^{S.C. 1} S. 33 B P

Sixth Standard Parallel North
Chain

A pinon 6 ins diam, bears $N 23^{\frac{3}{4}} W$
 107 lbs dist, marked $\frac{S.C.1}{4}$ S 33 B D
 Difference between measurements of
 80.00 chs by two sets of chain is
 10 lbs, position of middle point.
 By 1st set, 80.05 chs
 By 2nd set, 79.95 chs, the mean of
 which is °

5000

Set a malpais stone $20 \times 12 \times 12$ ins
 14 ins in the ground for standard
 cor of sres 33 and 34, marked S 6
 on N with 3 grooves on E. and
 W faces from which a erday 17
 ins diam, bears $N 41^{\frac{1}{2}} E$, 97 lbs
 dist, marked S 25-N, R 8 E S 34
 B. D.

A erday 24 ins diam, bears $N 36^{\circ} W$
 167 lbs dist, marked S 25-N, R 8 E
 S 33 B. D.

Through Bunge & East - continued
Chain

Land level and rolling

Soil gravelly and volcanic cinders,
3rd and 4th rates.

Timber cedar.

Heavily timbered land, 72.00 chs.

August 3, 1902.

East on S by sec 34

Through heavy cedar timber

Over gently rolling land

Difference between measurements of
4000 fms by two sets of chainmen is
8 chs position of middle point

By 1st set 39.96 chs

By 2nd set 40.04 chs, the mean of
which is

4000 Set a malpais stone 18 x 10 x 8 ins, 12
ins in the ground, for standard
 $\frac{1}{4}$ sec cor, marked S C₂ on N. face.

Fifth Standard Parallel North
Chain

from which a rod of 24 ins diam
bars $N 62^{\circ} E$, 155 lbs dist marked
S. C. $\frac{1}{4}$ S 34 B P

A rod of 24 ins diam, bars $N 32^{\circ} W$
163 lbs dist marked S. C. $\frac{1}{4}$
S 34 B P, and ascernd

57.00 Foot, and enter draw, course N. Easterly

55.30 Gradman creek (dry), 40 lbs wide
course N. Easterly

56.30 Draw, draw and ascernd

6.00 Top of spur, bars N. Easterly, thence
along broken slope of ridge

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

By 1st set 80.06 chs

By 2nd set 79.94 chs, thence of
which is

8.000 set a malpais stone $18 \times 10 \times 8$ ins

Through Range 8 East - Continued
 Chaus

12 ins in the ground, for standard
 cor of sres 34 and 35, marked
 S. C. on N with 2 grooves on E and
 4 grooves on W faces, from which
 a pinion 15 ins diam, bears $N 38^{\circ} 4' E$,
 121 lbs dist, marked P 25 N, R 8 E,
 S 35 B P

A rod 8 ins diam, bears $N 38^{\circ} W$,
 39 lbs dist, marked P 25 N, R 8 E,
 S 34, B. P.

Land broken and rolling
 Soil, gravelly and volcanic cinders
 3rd and 4th rates.

Timber, cedars
 Sparingly timbered land 8000 cho

East on S. E. dy sre 35
 Over broken land
 Ascending

Fix the Standard Parallel North
Chains

- Though heavy cedar timber.
- 2.00 Rope of ascert. bars N and S
Turner along broken slope of ridge
Difference between measurements of
4000 chs by two sets of chains is
10 lbs, position of middle point
By 1st set 39.95 chs
By 2nd set 40.05 chs, the mean of
which is
- 4000 Set a malpais stone 18 x 10 x 6, 12
ins in the ground, for standard $\frac{1}{4}$
sec. cor, marked S C, $\frac{1}{4}$ S 35
from which a cedar 18 ins diam
bars N 51 $\frac{3}{4}$ ° E, 56 lbs dist, marked
I. C. $\frac{1}{4}$ S $\frac{35}{4}$ B. P.
- A cedar 12 ins diam bars N 54° W
56 lbs dist, marked $\frac{1}{4}$ S C 1
35 B P
- 78.30 Nail bars Northwly and Southwly
Difference between measurements of

Through Range 8 East - Continued
 Chains

8000 chs by two sets of chummen is
 8 lks, position of middle point

By 1st set 80.04 chs

By 2nd set 79.96 chs, the mean of
 which is

8000 Set a malpais stone 18 x 14 x 6 ins
 12 ins in the ground for standard
 cor of sres 35 and 36, marked S.C.
 on N, with 1 groove on E and 5
 grooves on W faces, from which a
 cord or 24 ins diam bears N 53° E,
 127 lks dist, marked S 25 N, R 8 E,
 S 36 B 7.

A cord or 20 ins diam bears N 66³/₄° W,
 61 lks dist, marked S 25 N, R 8 E,
 S 35 B 7.

Land level and broken
 Soil, gravelly and volcanic
 cinders, 3rd and 4th rates

Sixth Standard Parallel North
Chains

Timber cedar
Gravelly timbered land, 8.00 chs.

East on S bdy sec 36

Over brush land

Through heavy cedar timber

26.00 Begin gradual descent

36.00 Foot, and enter valley, bears N.
Westerly and S. Easterly

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

By 1st set 3997 chs

By 2nd set 4003 chs, the mean of
which is

4000 Set a malpais stone $18 \times 12 \times 8$ ins,
12 ins in the ground for standard
 $\frac{1}{4}$ sec cor, marked S. 6 $\frac{1}{4}$ S 36 on N
face from which a cedar 12 ins

Through Range 8 East - continued
Chain

diam, bars N $35\frac{1}{2}^{\circ}$ E, 62 lbs dist,
marked S. C. $\frac{1}{4}$, S 36 B 5

A cedar 24 ins diam, bars N $34\frac{1}{2}^{\circ}$ W
80 lbs dist, marked J. C. $\frac{1}{4}$,
S 36 B 5

75.00 Grav Pallet, bars N. Westerly
and S. Easterly, and ascend
Difference between measurements
of 8000 lbs by two sets of chainman
is 8 lbs, position of middle point
By 1st set 79.96 lbs
By 2nd set 80.04 lbs, the mean of
which is

8000 Set a malpais stone $18 \times 10 \times 8$ ins, 12
ins in the ground for standard
cor of lbs 25 N, lbs 8 and 9 E.
marked

S. C. $25\frac{1}{2}$ on N

9 E on E, and

Sixth Standard Parallel North

Chains

8 E on W faces with 6 grooves on
N. E. and W faces from which a
cedar 10 ins diam, bears N 75° E, 56
lbs dist marked S 25° N, B 9 E, S
31 B S

A cedar 24 ins diam, bears N 24° W
14 lbs dist, marked S 25° N, B 8 E
S 36 B S

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

Timber, cedar

Scarcely timbered land 8,000 chs

August 4, 1902.

General Description

This line runs over level, rolling
and mountainous land. Cedar
timber abounds along the line

1
 through Range 8 East - Concluded
 Chain

The soil is gravelly, stony and volcanic, cinders. There is no water and but little grass.

x.

Philip Couzess
 U. S. Deputy Surveyor.

Note: In the survey of the Stand, neither the tangent nor secant method was employed, for the reason that the line was projected from true meridians determined at intervals of from 15 to 20 chs. along the line of survey.

See 2nd Guide Mer. E. through
 Pgs. 25 to 32 ~~4~~ for Oathe.

Office of U. S. Surveyor, General,
Phoenix, Arizona.

Oct. 13th 1903.

The foregoing field notes of the survey

of the Sixth Standard Parallel
north through R. S. E.

Gila and Salt River Base and Meridian, in
Arizona, executed by Philip Centzen

U. S. Deputy Surveyor, under

Contract No. 90 dated Dec. 16th 1901

having been critically examined, the neces-

sary correction and explanations made, the

said field notes and the surveys the describ

are hereby approved.

Frank S. Lygell

U. S. Surveyor General for

District of Arizona.