(Surveys Retracements)

A portion of the EAST & NORTH
BOUNDARIES
T. 17N. : R5E.

W.C. Lucas - D.S.
Cont. 102-

4-671

FIELD NOTES

GENERAL LAND OFFICE.

No. 1409

No. 1409 BOOK 1409

Field Notes
of the survey of the
East and North Boundaries
of
Township No. 17 N.
Range No. 5 E.
of the
Gila and Salt River
Base and Meridian
in the
Territory of Arizona
as surveyed by
W. Oscar Decor.
U. S. Deputy Surveyor.
Under his contract No. 102
Dated June 30th, 1902.

Survey commenced Sept. 30th 1902
Survey completed October 6th, 1902

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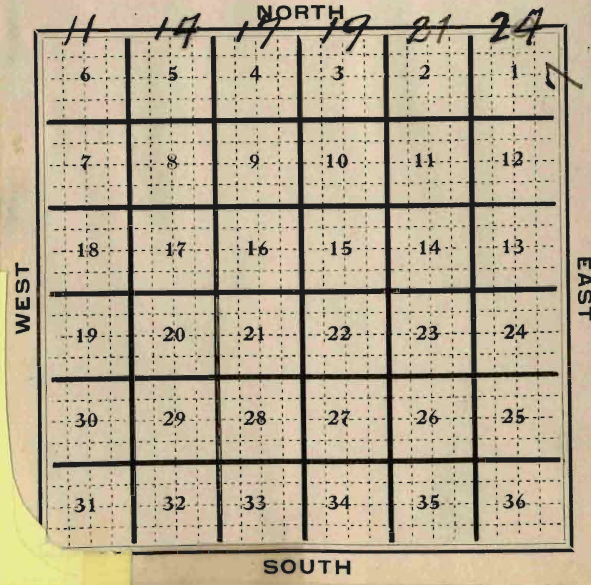
Names and duties of Assistants

Joel Anderson Chainman
A. G. Johnson Chainman
F. M. Lockwood ~~Chainman~~ Monuments
Hubert Harpham Ax man
C. J. Schwartz Ax man
Norman Cook Flagman

BOOK 1409

Township 17 North, Range 5 East.
G. & S. R. B. & M. County,



For Preliminary oaths, see
index T. 19 N., R. 6 E.

E. Boundary of

Survey commenced September 30th, 1902, and executed with a Buff and Berger engineer's transit with Seagmuller Solar attachment. This transit is numbered 672; the horizontal limb having two double verniers placed opposite to each other, and reading to 30" of arc.

The instrument was examined and approved by the Surveyor General of Arizona, at Phoenix, Arizona

At my camp near the cor. of secs. 7, 8, 17 and 18, T. 17 N. R. 6 E., I sat off 2° 39' E. on the decl. arc; and at noon observed the sun on the meridian, the resulting latitude is 34° 51' N.

Tp. 17 N. R. 5 E.

At 3 p.m. l.m.t. I set off 2° 41' E. on the decl. arc; 34° 51' N. on the latitude arc; and determined a true meridian with the Polaris and marked the line thus determined on a stone firmly set in the ground about 6.00 chs. N. of my station.

I allow my instrument to remain at this point, and at 6h 54m p.m. l.m.t., I observe Polaris at Eastern elongation in accordance with instructions in the Manual, and mark the line thus determined on a stone firmly set in the ground about 6.00 chs. N. of my station.

I lay off the azimuth of Polaris, 1° 29' to the west

west

and mark the true meridian thus determined by a cross on a stone firmly set in the ground.

The point falls 0.3 ins. West of the point determined by the polar.

September 30th, 1902.

October 1st; at 8 am., L.M.t. I set off 2°57'S on the decl. arc; 34°51' N. on the lat. arc; and determine a true meridian with the polar and mark the line thus determined on a stone firmly set in the ground at about 6.00 chs N. of my station

This point falls 0.2 ins. E. of the meridian determined by the Polaris observation.

I therefore conclude

E. Bdy. Tp. 17 N. R. 5 E.

that the adjustments of my instrument are satisfactory.

The magnetic bearing of the true meridian is N. 14° W.; the angle thus determined gives the magnetic decl. 14° E.

Longitude 111° 45' W "

At 9 a.m., L.M.t., I set off 2° 59' S. on the decl. arc; 34° 53' N. on the lat. arc; and determine a true meridian with the solar, at the N.E. of Tp's 17 and 18 N. Rs. 5 and 6 E, which I destroy.

Thence I run
N. on a true line bet. secs. 1 and 6.
Ascending toward isolated red sandstone butte
4.80 A point on S side of red

East Boundary of

sandstone butte 200 ft. high.
Set a sandstone 16x12x10 ins
in a md. of stone for cor.
of Tps. 17 and 18 N. R 5 and
6 E., marked with 6 notches
on N. S. E. & W. edges.
from which
A pinion 5 ins. diam. bears
S. 85° E. 100 lks. dist. marked.
T. 17 N. R 6 E. S. 6 B. T.
A pinion 11 ins. diam. bears.
S. 68° W. 175 lks. dist. marked
T. 17 N. R. 5 E. S. 1 B. T.
A pinion 15 ins. diam. bears.
N. 79° W. 120 lks. dist. marked
T. 18 N. R 5 E. S. 36 B. T.
No other trees in distance
Built a md. of stone 2½
ft. base by 1½ ft. high.

Tp. 17 N. R. 5 E.

N. of cor.
Pits impracticable
Thence I retrace
S. bet. secs 1 and 6.

40.00 1/4 sec. cor. as described by the Surveyor General.

78.30 Cor of secs. 1, 6, 7 and 12 in bad condition.
Land mountainous 78.30 Chs.
Pine cedars, pinions and yews 78.30 Chs.
Soil rocky. 4th rate.
Oct. 1st 1902.

North Boundary of

Oct. 2d; at 8h a.m., L.M.t., I set off 3°20' S. on the decl. arc; 34°53' N. on the lat. arc; and determine a true meridian with the solar at the cor. of Tps. 17 and 18 N. Rs. 5 and 6 E.

Thence I run

N. on a random line along N. bdy. sec. 1, making due offsets, because of impassable bluffs, and finding no trace of cors., I continue N. making due offsets and find old cors. bearing N. at the rate of 44 lks. to the mile.

At. 477.65 chs. I fall 263 lks. S. of cor. to Tps. 17 and 18 N., Rs. 4 and 5 E. as described by the Surveyor General

as dec'd by Surveyor

thus requiring a return course of S. 89°41' E.

Oct. 2d, 1902.

Oct 3d: At 8½ a.m. l.m.t. I set off 3°44' S. on the decl. arc; 34°53' N. on the lat. arc; and determine a true meridian with the solar, at the cor. of Tps. 17 and 18 N. Rs. 4 and 5 E.

Thence I run.

S. 89°41' E. on a true line along N. bdy. of Tp. 17 N. R. 5 E, destroying all trace of old cors. and setting new cors. at same points S. 89°41' E. on a true line on N. bdy. sec. 6

Through dense cedars.

N. Boundary of

40.00 Destroy all trace of old.
1/4 sec. cor.
Set a sandstone 18 x 18 x 12 ins
12 ins. in ground for 1/4 sec
cor. marked 1/4 on N. face.
from which
A cedar 10 ins. diam. bears
N. 30° W. 237 lks. marked
1/4 S. 31 B. T.
A cedar 7 ins. diam. bears N.
19° E. 256 lks. dist. marked
1/4 S. 31 B. T. No trees S. of line. raised md. 2 stones 2 ft. base. 1½ ft. high. No cor.
49.05 Trail bears N. W. and S. E.
55.00 Dry wash, course S. W.
61.60 Road bears N. E. and S. W.
73.00 Ascend steep rocky slope
through dense oak brush
78.30. Set a sandstone 16 x 12 x 8 ins
in a md. of stone for cor.

Tp. 17 N. R. 5 E.

of secs. 5, 6, 31 and 32.
Marked with 5 notches on E.
and 1 notch on N. edges.
from which
A pinion 6 ins. diam bears.
N. 21° W. 106 lks. dist. marked
T. 18 N. R. 5 E. S. 31 B. T.
A cedar 5 ins. diam. bears.
N. 23° 30' E. 207 lks dist.
marked T. 18 N. R 5 E. S. 32 B. T.
No other trees in distance.
Build a md of stone 2½ ft.
base 1½ ft. high N. of cor.
Pits impracticable.
Land mountainous 78.30 chs.
Dense cedars 70.00 chs.
Dense brush 8.30 chs.
Soil rocky. 4th rate
Oct. 3d 1902

N. Boundary of

Oct. 4: at 8 a.m., l.m.t., I set off 4°07 5/10' on the decl. arc; 34°53' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 5 and 6.

Thence I run.

S. 89°41 E. bet. secs. 5 and 32.

Through dense cedars, oak and manzanita brush.

Ascending steep rocky slope.

11.60 Ascend abruptly, sandstone cliff 100 ft. high, bears N. & S.

35.30 Edge of bluff, bears N. & S. descend abruptly.

38.30 Set a sandstone 16x10x4 ins. 12 ins. in ground. for 1/4 sec cor, marked 1/4 on N. face. from which.

A cedar 8 ins. diam bears

Tp. 17 N. R. 5 E.

S. 79° E. 74 lks. dist. marked
1/4 S. 5 B. T.
No other trees in distance
Raise a md. of stone 3 ft. base
2 ft. high. N. of cor.
Destroyed all trace of old cor.
Pits impracticable
60.00 Foot of slope, ascend.
68.00 Line along N. slope of ridge
78.30 Set a sandstone 16 x 14 x 7 ins.
10 ins. in ground. for. cor.
of secs. 4 and 5.; it being
evident that from this
point East my sec. cors.
will refer only to Tp. 17 N.
R. 5 E.; marked with 4
notches on E. and two notches
on N. edges. From which
a cedar 10 ins. diam. bears
S. 24° E. 76 lks. dist. marked.

N. Boundary of

T. 17 N. R 5 E. S. 4 B. T.
A cedar. 6 ins. diam. bears
S. 79° W. 10 lks. dist. marked.
T. 17 N. R. 5 E. S. 5 B. T.
Land mountainous 78.30 Chs
Dense oak and manzanita
brush 78.30 Chs.
Pinion and cedar timber
78.30 Chs
Soil rocky 4th rate
Destroyed all trace of old cor.;
This cor. will refer to two secs.
only.

Tp. 17 N. R. 5 E.

S. 89° 41' E. along N. bdy. sec. 4.
Through dense cedars.

2.00 Dry wash. course S. E.

7.15 Dry wash course S.

10.00 Trail, bears N. and S.

28.30 Dry wash course S.

38.00 Dry wash course S.

38.35 Trail bears N. and S.

40.00 Unable to find 1/4 sec. cor.
Set a sandstone 20 x 12 x 4 ins
16 ins. in ground. for 1/4 sec.
cor. marked 1/4 on N. face.
from which.
A cedar 10 ins diam. bears
S. 40° W. 199 lks. dist. marked.
1/4 S 4 B.T.
A cedar 4 ins. diam. bears.
S. 22° E. 75 lks. dist. marked
1/4 S 4 B. T.

67.00 Dry wash. course N. W. ascend.

18

N. Boundary of

80.00 Destroy all trace of old cor.
Set a sandstone 18x14x8 ins.
in a md. of stone for cor to
secs. 3 and 4, marked with
3 notches on E. and W. edges
from which
a cedar 4 ins diam. bears
S. 66° W. 65 lks. dist. marked
T. 17 N. R. 5 E. S. 4 B. T.
No other trees in distance.
Build a md. of stone 3 ft. base
2 ft. high. S. of cor.
Pits impracticable
Land mountainous 80.00 chs.
Dense cedars & brush 80.00 chs
Soil rocky, 4th rate
Oct. 4th, 1902.

Oct. 5th; at 8 a.m. l.m.t. I
set off 34° 53' N on the lat. arc; 4° 30' E on the decl. arc; and determine a true meridian with the solar at the cor. to secs. 3 and 4
Thence I run.
S. 89° 41' E. on a true line on N. bdy. sec. 3.
Through dense cedars & pines
9.40 Dry wash. course N. W.
33.60 Road to Oak Creek bears N. & S.
40.175 Unable to find 1/4 sec. cor. Set a sandstone 24 x 18 x 6 ins 16 inches in ground for 1/4 sec. cor. marked 1/4 on N. face from which
A cedar 8 ins. diam. bears S. 40° W. 32 lks. dist. marked 1/4 S. 3 B. T.
A cedar 7 ins. diam bears

N. Boundary of

S. 76° E. 57 lks. dist. marked
1/4 S. 3 B. T.

68.50 Foot of perpendicular cliff 20 ft. high bears N. & S. ascend.

70.00 Set a point on line

71.00 Set a sandstone 20 x 12 x 10 ins in a md. of stone for 1/4 Cor. to secs. 2 and 3, marked N. C. on N. face. with 2 notches on E and 4 notches on N. edges. from which a cedar 8 ins. diam. bears S 11° W. 50 lks. dist. marked N.C. T. 17 N. R. 5 E. S. 3 B. T. a cedar 14 ins. diam bears S. 20° E. 119 lks. dist. marked N.C. T. 17 N. R. 5 E. S. 2 B. T.

Tp. 17 N. R. 5 E.

Land mountainous 80.35 chs.
Dense cedars. pinions
yews and oak brush 80.35 chs.
Soil rocky 4th rate.

I now return to the
point previously set on
line at 70.00 chs. and
offset N. 12.00 chs.
Thence I run
S. 89° 41' E.
55.84 Offset S. 12.00 chs to line, thence
N. 89° 41' E 5.315 chs. to a
point for 1/4 sec. cor. on
N. bdy. sec. 2.
Set a sandstone 16 x 12 x 5 ins
12 ins. in ground. for 1/4
sec. cor. Marked 1/4 on N. face
from which

N. Boundary of

A yew 10 ins. diam bears S. 69° E. 17 lks. dist. marked 1/4 S. 2 B. T.

A yew. 10 ins diam. bears S. 65° W. 15 lks. dist. marked 1/4 S. 2 B. T.

From the cor. last described I run S. 89° 41' E and at 5.315 chs I offset N. 12 chs; thence S. 89° 41' E. for a distance of 35.00 chs; thence I offset S. 12.00 chs. to point on line 0.14 ch. E. of point for cor. to secs. 1 and 2, under a cliff 600 ft. high.

Set a sandstone 16 x 8 x 5 ins in a md. of stone for W. C. to sec. cor. of secs. 1 and 2

marked with one notch on
E. and 5 notches on N. edges
N. C. on E. face.
from which
A pine 7 ins diam. bears
S. 70° E. 70 lks. dist. marked.
N. C. T. 17 N. R. 5 E. S. 1 B. T.
No other trees in distance.
Built a md. of stone 2½
ft. base 1½ ft. high S. of cor.
Pits impracticable.
Land mountainous 80.35 chs
Dense pines and oak
and manzanita brush 80.35 chs
Soil rocky. 4th rate
Oct. 5th 1902

N. Boundary of

Oct. 6th, 1902; at 8 a.m. l.m.t.
I set off 34°53' N. on the lat. arc;
4°53' E. on the decl. arc. and
determine a true meridian
with the polar at W.C. to secs.
1 and 2. Thence I run.
S. 89°41' E. on a true line
along N. bdy. sec. 1. from W.C.
39.90 Road bears N. and E.
40.035 Unable to find 1/4 sec. cor.
Set a sandstone 20 x 18 x 12 ins.
16 ins. in ground for 1/4 sec
cor. marked 1/4 on N. face
from which
A cedar 12 ins. diam.
bears S. 51° E. 74 lks. dist.
marked 1/4 S. 1 B. T.
A yew 7 ins. diam. bears
S. 30° W. 111 lks. dist. marked
1/4 S. 1. B. T.

Tp. 17 N. R. 5 E.

42.20 Line crosses sandstone tank
4 tanks bear N. E. 40 lks.
dist. Each tanks holds
about 15 barrels of water.

50.00 Perpendicular cliff 500 ft.
high. 2.50 chs. E. bears N. & S.
Offset S. 40.00 chs. thence
S. 89° 41' E. and at.

30.21 Intersect E. bdy. Tp. 40.00
chs. S. of cor. to Tps. 17 and 18
N. Rs. 5 and 6 E.
Land mountainous 80.35 chs.
Dense yew timber and
undergrowth 80.35 chs.
Soil rocky, 4th rate.
Oct. 6th 1902

General Description

The East and North boundaries of this township are exceedingly rough and mountainous.

The lines generally pass through a dense growth of cedars and pinions with some oak and dense oak brush.

There is no living water on the lines comprised within this contract; though Oak Creek crosses the East boundary of Sec. 24 in a southwesterly direction

There are no settlers in the vacinity of the lines.

W. Oscar Lacor
U.S. Deputy Surveyor.

For Final oaths; See
subs: T. 19 N. R. 6 E.

No. 1409.

APPROVAL.

Office of the

United States Surveyor-General,

Phoenix, Arizona.

May 27 1904

The foregoing field notes of the survey and resurvey of the North boundary & portion of the East Bdy of T17N R5E of the Gila and Salt River Base and Meridian, in the Territory of Arizona.

Executed by W. Oscar Secor,

United States Deputy Surveyor, under his contract No. 102, dated June 30 1902, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank Ingalls

U.S. Surveyor-General.