

Exterior
BOOK "AX"

FIELD NOTES

OF THE SURVEY OF
PORTIONS OF THE

East and North boundaries

AND RESURVEY OF

THE West boundary AND
PORTIONS OF THE

East and North boundaries of

Township N^o 27 North, Range N^o 19 East

of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Sidney E. Blout

United States Examiner of Surveys
Deputy Surveyor

Special Instructions from the Commissioner of the General Land Office

Under his Contract No. _____, dated Oct. 2, 1907 and May 15, 1908

and Resurvey
Survey commenced July 11, 1908

and Resurvey
Survey completed August 13, 1908

132
19

BOOK 2577

NAMES AND DUTIES OF ASSISTANTS.

Fred L. Warner	Chairman
Van L. White	Chairman
Harry J. Hassler	Moundman
Chas. A. Dutton	Axeman
R. E. Claiborne	Flagman

(13)

BOOK 2577

INDEX DIAGRAM.

Township 27 N., Range 19 E.

RESURVEY

13 11 6	14 5	15 4	16 3	17 2	19 1 6
10 7	8	9	10	11	12 5
10 18	17	16	15	14	13 4
9 19	20	21	22	23	24 3
9 30	29	28	27	26	25 2
8 31	32	33	34	35	36 1

RESURVEY

Meanders Page _____

134
10

BOOK 2577

For PRELIMINARY OATHS OF ASSISTANTS.
see Exterior Book "A"

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; 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 distances 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

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Resurvey commenced July 11th 1908 and executed with a Young & Sons light mountain transit No. 10 with a Smith Solar attachment, the horizontal limb being provided with two double verniers placed opposite to each other reading to single minutes of arc. which is also the least count of the verniers of the latitude and declination arcs.

Examine the adjustments of the transit and find them to be correct and know from recent tests of the solar, by comparing its indications resulting from solar observations made during pm and am hours with a meridian established by observation on Polaris, that the solar apparatus is in satisfactory adjustment, therefore I

begin at the cor. of Twp. 26 and 27 N. R 19 and re-established by me July 2, 1908 as described in Exterior Book "B"

20 E. N. latitude $35^{\circ} 41' 01''$ N. longitude $110^{\circ} 15' 49''$ W.

At this cor. I set off $35^{\circ} 41'$ N. on the lat. arc.

$22^{\circ} 08\frac{1}{2}'$ N. on the decl. arc and at $7^h 35^m$ a.m. cut

determina meridian with the solar,

thence I run, on true line

North, set rods 31 and 36; resurveying

over hilly adobe land through scattering sage and greasewood brush undergrowth

4.00 Top of ridge bears N.W. and S.E. desc

7.50 Dry ravine Course N.W. asc.

10.40 Top of ridge bears N.W. and S.E. desc.

14.00 Dry ravine Course N.W. asc.

17.00 Top of ridge bears N.W. and S.E. desc.

20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.

25.80 Dry ravine Course N.W. asc.

26.45 Top of ridge bears N.W. and S.E. desc.

37.30 Dry ravine Course N.W. 1 ch. wide 15 ft. deep.

40.00 Intersect old $\frac{1}{4}$ sec. cor. which is a sand stone

mkd and witnessed as described in the copy of original field notes, ^{furnished me by the Surveyor General,} marked on stone nearly obliterated.

I destroy all evidence of the old cor and re establish it in its original position as follows:

Set an iron post 3 ft long in a line 26 in. in the ground. mkd on base Cop $\frac{1}{4}$ S. 36 on W half and S 31 on E. half.

BOOK 2577

Dig pits 18x18x12 ins, N and S. of post. 3 ft. dia and
raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W.
of Cor.

53.75 Left bank of dry arroyo 15 ft high from N.E. and S.W.
60.00 No trace of old 1/16 sec. cor. can be found.
62.00 Center of Arroyo. E. and S.W.

67.00 Right bank of same Arroyo 10 ft. high from N.E.
and S.W. Land hilly land from N.E. and S.W. E. side
rolling bottom land.

74.00 Road from Winslow Ariz to Kams Canyon Ariz
bears N.E. and S.W.

80.02 Intersect ^{the old} Cor. of sec. 25, 30, 31 and 36. which is a
sand stone lying on a mound of earth with trace
of pits. Destroy all evidence of this Cor. and re-es-
tablish it in its original position as follows:
Set an iron post 3 ft. long. 3 in. in diam. 24 in. in
the ground for Cor. of sec. 25, 30, 31 and 36, mkd.
on brass cap. T 27 N. on N. half, R 19 E S 25 in N.W.
R 20 E S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrant.

Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. dia. and
raise a mound of earth 4 ft. base 2 ft. high W.
of Cor.

Land rolling and hilly.

Soil sandy and adds 2nd and 3rd rate.

No timber

North, Sec. 25 and 20; resurveying

Ascend gradually South slope over rolling sandy
land through sage and greasewood

20.00 No trace of 1/16 sec. cor. can be found.
30.50 Top of sand ridge, bears NW. and SE. descend NE. slope
40.00 Make diligent search for the old 1/16 sec. cor. stone but
am unable to find it. At 40.04 find trace of old
mound and evidence of two pits. and point midway
between the pits, or at.

40.07 Set an iron post 3 ft. long 1 in. in diam. 26 in. in
the ground for ^{re-established} 1/16 sec. cor. mkd on brass cap 1/4
S 25 on W half and S 30 on E half.

Dig pits 18x18x12 ins N. and S. of post. 3 ft. dia. and
raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W.
of Cor.

60.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.

80.00 Make a diligent search for the ^{old} cor. of sec. 19, 24, 25 and 30 but fail to find any evidence of the same therefore
 Set an iron post. 3 ft. long 3 in. in diam and 24 in. in the ground for ^{Re-established} cor. of sec. 19, 24, 25 and 30 mhd on brass cap T 27 N on W half. R 19 E S 24 in N.W., R 20 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrant
 Dig pits 18 x 18 x 12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist and raise a mound of earth 4 ft. base, 2 ft. high W of cor.
 Land rolling and hilly.
 Soil sandy 3rd rate
 November

Thence surveying completion of East bdy. of T. 27 N. - R. 19 E.

North, to sec. 19 and 24,

Descend N.E. slope of sand ridge over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.

23.30 Enter dry sand wash. Course S.E. comes from North

28.00 Leave wash. Course S. comes from N.E. asc. S.E. slope of sand ridge

32.65 Top of sand ridge leave N.W. and S.E. desc

40.00 Set an iron post. 8 ft. long 1 in. in diam 26 in. in the ground for $\frac{1}{4}$ sec. cor. mhd on brass cap $\frac{1}{4}$ S 24 on W half and S 19 on E half.

Dig pits 18 x 18 x 12 ins. N and S of post 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W of cor.

40.50 Dry sand wash. Course S.E. leave hilly land. leave N.W. and S.E. ascend. SW slope of mesa over stony mountainous land leave N.W. and S.E.

54.45 Top of mesa leave N.E. and S.W. desc abruptly

58.60 Dry ravine 100 ft. deep at foot of mesa. Course S.W. desc. abruptly over cliffs and ledges

60.50 Top of cliffs 100 ft. above ravine leave N.E. and S.W. continue across over ledges and fallen boulders

BOOK 2577

- 77.50 Top of ascent on front of mesa toward N.E. and S.W.
- 78.00 North edge of mesa toward N.E. and S.W. descends abruptly over fallen boulders
- 80.00 Set an iron post 3 ft long 2 in in diam 24 in in the ground for cor. see Cop. 13, 18, 19 and 24 onhd on base Cop. 727 N. on N half R 19 E S 13 in N.W. R 20 E S 18 in N.E. S 19 in S.E. and S 24 in S.W. quadrant.

Raise a mound of stone 4 ft base 2 ft high W. of cor., this impracticable.
 Land hilly and mountainous.
 Soil sandy and stony 3rd and 4th rate
 No timber

Mountainous land 39.50 Chs.

NOTE: At 77.75 lbs on this mile D set off 22° 06' N. on the decl arc. and at noon observe the sun on the meridian and obtain on the lat arc a reading of 35° 43' N. for the lat. of this place

North, lat. sec 13 and 18,
 Descend N.W. slope over stony mountainous land.

- 80.50 Foot of descent, in dry ravine in head of canyon 40 ft below cor. course S.W. are abruptly over cliffs and ledges
- 3.00 Top of cliffs along S edge of mesa toward N.E. and S.W., low mountainous land toward N.E. and S.W., enter hilly sandy mesa land toward N.E. and S.W.
- 40.00 Set an iron post 3 ft long 1 in in diam, 26 in in the ground for 4 sec cor onhd, on base Cop. 4 S 13 on W half and S 18 on E half. Dig pits 18 x 18 x 12 in N and S. of post 3 ft dia and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W of cor
- 40.25 Top of sand ridges toward N.E. and S.W. these are low sand ridges

63.00 Enter scattering scrub cedar trees N.E. and S.W.

80.00 Set an iron post 3ft long 3ins in diam 24 ins in the ground for cor of sec 7, 12, 13 and 18 mk'd on brass cap T 27 N. on N. half, R 19 E S 12 in N.W. R 20 E S 7 in N.E. S 18 in S.E. and S 13 in S.W. quadrants Dig pits 18x18x12 ins in each sec. 5 1/2 ft dia and raise a mound of earth 4 ft. tall 2 ft high W of cor. No trees suitable for bearing trees within the prescribed limits.
Land hilly and mountainous.
Soil sandy and stony 3" and 4" cati.
Timber Cedar.
Mountainous land 3.00 chs

North, bet sec 7 and 12,
Descend N.W. slope and hilly sandy land through sage and greasewood brush undergrowth and scattering scrub cedar timber

19.00 Dry ravine Course S.W. ascend S.E. slope

20.50 Wood road bears N.E. and S.W.

40.00 Set an iron post 3ft. long 1. in in diam 26 ins in the ground for 1/4 sec. cor mk'd on brass cap 1/4 S 12 on W half and S 7. on E half.

Dig pits 18x18x12 ins and 3 of post 3ft dia and raise a mound of earth 3 1/2 ft. tall 1 1/2 ft. high W of cor. No trees suitable for bearing trees available

40.40 Wood road bears N.E. and S.W.

67.00 Top of sand ridge bears N.E. and S.W. desc.

72.45 Dry ravine Course N.E. asc.

73.00 Point of ridge bears N.E. and S.W. desc

73.35 Same ravine Course N.W. asc.

73.80 Point of ridge bears N.W. and S.E. desc N.E. slope

80.00 Set an iron post 3ft. long 3ins in diam 24 ins in the ground for cor of sec 1, 6, 7 and 12 mk'd on brass cap. T 27 N. on N. half. R 19 E S 1 in N.W. R 20 E S 6 in N.E. S 7 in S.E. and S 12 in S.W. quadrant.
Dig pits 18x18x12 ins in each sec 5 1/2 ft. dia

BOOK 2577

and raise a mound of earth 4 ft. base 2 ft high
W of cor.

No trees suitable for bearing trees within limits
Land hilly.

Soil sandy 3rd rate
Timber cedars.

North, Ch. sec 1 and 6,

Descend N.W. slope over hilly sandy land through
scattering scrub cedar timber

1.20 Pre-railroad course N.E. and

2.00 Top of ridge base N.E. and S.W. desc

2.50 Dry ravine course N.E. and

9.00 Top of ridge base N.E. and S.W. desc.

40.00 Set a cedar post 6 ins sq. 3 ft. long 2 ft. in the
ground for $\frac{1}{4}$ sec. cor. mkd $\frac{1}{4}$ S on W face and
S on E face.

Dig pits 18 x 18 x 12 ins N and S of post. 3 ft. dist.
and raise a mound of earth 3 $\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft.
high W of cor

No trees available for bearing trees

55.00 Road, bears N.E. and S.W.

58.16 North edge of mead base N.E. and S.W. desc
abrupt rocky N slope into narrow canyon

63.00 Bottom of canyon 60 ft. deep. base N.E. and S.W.
Ascend S.E. slope

68.40 Top of ascent on S. edge of mead. base
N.E. and S.W. thence over broken stony land

80.00 Set an iron post 3 ft. long 3 ins in diam
in a mound of stone 6 ft. base, 30 ins
high, mkd on base Cop. T 28 N. on N half.
T 27 N. on S half., R 19 E S 36 in N.W. R 20 E S
31 in N.E. R 20 E S 6 in S.E. and R 19 E S 1 in
S.W. quadrants. from which.

A cedar 6 ins in diam base 36 $2\frac{3}{4}$ W
99 lbs. dist. marked T 27 N. R 19 E S 1 B.T.

Survey of portion of East boundary of Tp 27 N. R 19 E.
 Chain

7

Cedar 7 ins. in diam base N. 75 $\frac{1}{2}$ ° W 67 lbs. diam.
 mkd T 28 N. R 19 E S 36 B. T.

No other trees within limits.

Raise a mound of stone 4 ft. base 3 ft. high. S.
 of cor. Pit impracticable

Land lilly and broken

Soil sandy and stony 2nd 3rd and 4th rate,
 Timber Cedar

July 11th 1908.

Resurvey of West boundary of T. 27 N. R. 19 E.
Chauis

BOOK 2577

Resurvey commenced July 11th 1908 and executed with a W. & A. S. Turley Engineers Transit with a Bush Solar attachment, the horizontal limb being provided with one double vernier reading to single minutes of arc., the verniers of the latitude and declination axes read to 0° 30" of arc.

I examined the adjustments of the transit and find them to be perfect and knowing from recent tests of the solar by comparing its indications resulting from observations made on the sun during p.m. and a.m. hours with a meridian established by observation on Polaris, that the solar apparatus is in satisfactory adjustment. I lay in at the cor. of T. 26 and 27 N. R. S 18 and 19 E. which I re-established June 18th 1908 as described in Exterior Book "A" altitude 35° 41' 01" N. Longitude 110° 22' 12" W.

On 8th a.m. am. limit. D. set off 35° 41' N. on the lab. arc. 22° 08' N. on the decl. arc. and determined a meridian with the solar.

Then I run, resurveying the West bdy. of T. 27 N. R. 19 E. North, bet. secs 31 and 36,

Over rolling sandy land sloped to S. E.

20.00 No trace of old 1/16 sec. cor. can be found.

40.00 Set an iron post 3 ft. long 1 in in diam 26 ins. in the ground for ^{re-established} 7 sec. cor. mhd on base cap. 1/4 S 36 on W half and S 31 on E half.

Dig pits 18x18x12 ins. N and S. of post 3 ft. dist and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor. ^{No trace of old 1/4 sec. cor. can be found.}

60.00 No trace of old 1/16 sec. cor. can be found
80.00 Set an iron post 3 ft. long 3 in in diam 24 ins in the ground for ^{re-established} 25, 30, 31 and 36 mhd on base cap. T 27 N on N. half. R 18 E S 25 in N. W. R 19 E S. 30 in N. E. S 31 in S. E and S 36 in S. W. quadrant.

Dig pits 18x18x12 ins in each sec. 5 1/2 ft dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No trace of old sec. cor can be found.

Land rolling

Soil sandy 2nd and 3rd rate

No timber

Resurvey of West Boundary of Twp. 27 N. R 19 E.
Chain

North, Feb. recs 25 and 30,

Ascend S. slope over rolling sandy land through scattering sage and greasewood undergrowth and bunch grass

20.00 No trace of old 1/16 sec. cor. can be found.

40.00 Set an iron post 3ft. long 1 in in diam 26 ins. in the ground for ^{re-established} 1/4 sec. cor. marked on brass cap. 1/4 S 25 on W half and S 30 on E half.

Dig pits 18x18x12 ins N and S. of post. 3ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high.

W. of cor. No trace of old 1/4 sec. cor. can be found.

60.00 No trace of old 1/16 sec. cor. can be found.

80.00 Set an iron post 3ft. long 3 ins. in diam. 24 ins. in the ground for ^{re-established} cor. of recs. 19, 24, 25 and 30 marked on brass Cap. T 27 N. on N. half. R 18 E S 24 in NW. R 19 E S 19 in NE. S 30 in SE. and S 25 in SW. quadrant.

Dig pits 18x18x12 ins in each. rec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high.

W. of Cor. No trace of old sec. cor. can be found.

Land rolling
Soil sandy 3rd rate.
No timber

North, Feb. recs. 19 and 24,

Ascend S. slope over rolling sandy land through scattering sage and greasewood brush and bunch grass

20.00 No trace of old 1/16 sec. cor. can be found.

40.00 Set an iron post 3ft. long 1 in in diam 26 ins. in the ground for ^{pre-established} 1/4 sec. cor. marked on brass Cap. 1/4 S. 24 on W half and S 19 on E half.

Dig pits 18x18x12 ins N and S. of post 3ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. W of cor. No trace of old 1/4 sec. cor. can be found.

60.00 No trace of old 1/16 sec. cor. can be found.

80.00 Set an iron post 3ft. long 3 ins in diam, 24 ins. in the ground. for ^{re-established} cor. of recs. 13, 18, 19 and 24, marked on brass Cap. T 27 N. on N. half. R 18 E S 13 in NW. R 19 E S 18 in NE S 19 in SE. and S 24 in SW quadrant.

BOOK 2577

Dig pits 18x18x12 ins in each sec, 5 1/2 ft dist and
raise a mound of earth 4 ft base 2 ft high W of cor.
No trace of old sec. cor. can be found.
Land rolling.
Soil sandy 3rd rate.
No timber

NOTE: On this cor. D set off 22° 06' N. on the decl. arc and
at noon. observe the sun on the meridian
the resulting col. being 35° 43' N.

North, 1/4 sec 13 and 18,

Over rolling sand hills through sage and greasewood
bush undergrowth and bunch grass

18.50 Road to place of original trees NW and SE

20.00 No trace of old 1/16 sec. cor. can be found.

40.00 Set an iron post 3 ft. long 1 in diameter 26 ins in the
ground for ^{reestablished} 1/4 sec. cor. which on base cap 1/4 S 13 on W
half and S 18 on E half.

Dig pits 18x18x12 ins. N and S. of post 3 ft dist, and raise
a mound of earth 3 1/2 ft. base 1 1/2 ft. high W of cor. <sup>No trace of old
1/4 sec. cor. can
be found.</sup>

60.00 Top of sand ridge base NE and SW. desc. over NW. slope ^{No trace of old 1/16 sec. cor. found}

66.00 Dry ravine course NW. asc.

68.00 Top of ridge base NW and SE. desc.

80.00 Set an iron post 3 ft. long 3 in. in diam 24 ins in the
ground for ^{reestablished} cor. of secs. 7, 12, 13 and 18 which on base
cap. T 27 N., on N. half, R 18 E S. 12 in NW, R 19 E S 7 in NE.
S 18 in SE. and S. 13 in SW. quadrant.

Dig pits 18x18x12 ins in each sec. 5 1/2 ft. dist and
raise a mound of earth 4 ft base 2 ft. high W of cor.
No trace of old sec. cor. can be found.
Land rolling sand hills.

Soil sandy 3rd rate

No timber

North, 1/4 sec 7 and 12,

Descend NE. slope over hilly sandy land through
sage and greasewood bush and undergrowth
and scattering bunch grass.

10.00 Dry ravine course W. asc.

Resurvey of Web Boundary of Twp 27 N. R 19 E.

- 14.00 Top of ridge, bears E. and W.
- 16.00 Dry ravine Course W. as e.
- 20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 40.00 Set an iron post 3 ft. long, 1 in in diam. 26 ins. in the ground for ^{re-established} $\frac{1}{4}$ sec. cor. mhd on brass cap $\frac{1}{4}$ S 12 on W half and S 7 on E half.
- Dig pits 18x18x12 ins N and S. of post. 3 ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor. No trace of old $\frac{1}{4}$ sec. cor. can be found.
- 43.00 Top of ridge bears E and W desc.
- 60.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 80.00 Set an iron post. 3 ft. long. 3 ins in diam. 24 ins. in the ground for ^{re-established} Cor. of recs 1, 6, 7 and 12. mhd on brass cap. T 27 N. on N. half. R 18 E S 1 in N.W. R 19 E S 6 in N.E. S 7 in S.E. and S 12 in S.W. quadrant.
- Dig pits 18x18x12 ins in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. No trace of old sec. cor. can be found.
- Land lilly
Soil sandy 3rd rate
No timber

North, bet. sec 1 and 6,

Descending over sandy and adobe land bears N.E. and SW through sage and greasewood bush undergrowth and scattering bunch grass

- 20.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 40.00 Set an iron post 3 ft. long 1 in in diam 26 ins in the ground for ^{re-established} $\frac{1}{4}$ sec. cor. mhd on brass cap. $\frac{1}{4}$ S 1 on W half and S 6 on E half.
- Dig pits 18x18x12 ins N and S of post. 3 ft. dist and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high. W. of cor. No trace of old $\frac{1}{4}$ sec. cor. can be found.
- 60.00 No trace of old $\frac{1}{16}$ sec. cor. can be found.
- 80.00 Intersect old cor of Twp 27 and 28 N. R's 18 and 19 E. which ~~destroy~~ ^{destroy and in the same place} Set an iron post 3 ft. long 3 ins in diam 24 ins in the ground for ^{re-established} Cor. of Twp. 27. and 28 N. R's 18 and 19 E. mhd on brass cap. T 28 N. on N. half. T 27 N on S half. R 18 E S 36 in N.W. R 19 E S. 31 in N.E. R 19 E S 6 in S.E. and R 18 E S 1 in S.W. quadrant -
- Dig pits 24x24x12 ins on line N.E and W. 4 ft.

BOOK 2577

and 3^d post 8 ft. dist and raise a mound of earth 5 ft. base 2 1/2 ft. high. S. of cor.
Land hilly
Soil sandy 3rd and 4th rate.
No timber

July 11th 1908

Survey and Resurvey commenced July 13th 1908 and executed with a Young and Sons light Mountain transit No. 10 with a Smith solar attachment, the horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc. which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit and find them to be correct. and know from recent tests of the solar, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian established by observation on Polaris. that the solar apparatus is in satisfactory adjustment - therefore I begin at the Cor. of Tps. 27 and 28 N. R's 19. and 20 E which I re-established July 11th 1908, as herein before described, Latitude $35^{\circ}46'14''$ N. Longitude $110^{\circ}15'49''$ W.

At this Cor. I set off $35^{\circ}46'$ N. on the lat. arc. $21^{\circ}52'$ N. on the decl. arc. and at $7^{\text{h}}05^{\text{m}}$ am l.m.t. - determine a meridian with the solar.

Thence I run,

N. $89^{\circ}59'$ W. and random line along the North boundary of Tps 27 N. R 19 E. setting level $\frac{1}{4}$ sec and sec. Cors. at intervals of 40.00 Chs and at 479.12 Chs I intersect N and S. line 48 lks N. of the Cor of Tps 27 and 28 N. R's 18 and 19 E. re-established by me July 11th 1908, as herein before described. The falling answers to a correction $0^{\circ}03'$ or 8 lks. South per mile counting from the N.E. Cor of the Tps. -

July 13th 1908

August 13th 1908. At $7^{\text{h}}35^{\text{m}}$ am. l.m.t. I set off $35^{\circ}46'$ N. on the lat. arc. $14^{\circ}42\frac{1}{2}'$ N. on the decl. arc and determine a meridian with the solar at the ^{re-established} Cor of Tps 27 and 28 N. R's 18 and 19 E, herein before described.

Thence I run, resurveying N. bdy. of T. 27 N. R. 19 E. to $\frac{1}{4}$ sec. cor. bet. secs. 4 and 33. N. $89^{\circ}58'$ E., bet. sec 6 and 31, on true line,

BOOK 2577

Descend E slope of ridge over hilly land through sage and greasewood undergrowth and scattering bunch grass

3.00 Dry ravine course NW. asc.

5.00 Top of ridge toward NW. and SE. desc.

10.00 Dry ravine course NW. asc.

14.00 Top of ridge toward N and S;

18.44 No trace of old 1/6 sec. cor. can be found.

20.00 Dry ravine course NW. asc.

27.75 Top of ridge toward NW. and SE. desc.

30.15 Dry ravine course NW. asc.

38.44 No trace of old 1/4 sec. cor. can be found.

39.12 Set an iron post 3 ft. long, 1 in in diam 26 in

in the ground for ^{re-established} 4 sec. cor. mkd on brass cap

1/4 S 31 on N half and 36 on S half.

Dig pits 18x18x12 in each and W of post 3 ft dia

and raise a mound of earth 3 1/2 ft base 1 1/2 ft.

high N. of cor.

42.00 Top of ridge toward N and S, desc. gently over N.E.

58.44 No trace of old 1/6 sec. cor. can be found.

78.44 No trace of old sec. cor. can be found.

79.12 Set an iron post 3 ft. long 3 in in diam 24

in in the ground for ^{re-established} 4 sec. cor. of sec 5, 6, 31 and 32

mkd, on brass cap. R 19E. on E half. T 28 N. S

32 in N.E. T 27 N. S 5 in S.E. S 6 in SW and S 31

in N.W. quadrant

Dig pits 18x18x12 in in each sec. 5 1/2 ft dia

and raise a mound of earth 4 ft base 2 ft.

high W. of cor.

Land hilly.

Soil sandy 3rd rate

No timber

N. 89° 58' E., bet. sec 5 and 32,

Over rolling sandy and a dobe land, through

sage and dead greasewood undergrowth, and

scattering bunch grass

20.00 No trace of old 1/6 sec. cor. can be found.

28.62 Road from Holbrook Arizona to Pheasa Ariz

toward NW. and SE.

40.00 Set an iron post 3 ft. long, 1 in in diam 26 in

in the ground for ^{re-established} 4 sec. cor. mkd, on brass cap

1/4 S 32 on N. half and 35 on S half.

Dig pits 18x18x12 in each and W of post 3 ft dia

Resurvey of portion of North boundary of Tp 27 N. R 19 E
Chasms

48.25
60.00
80.00

and raise a mound of earth 3 1/2 ft base, 1 1/2 ft high N. of cor. No trace of old 1/4 sec. cor. can be found.
Dry ravine Course NW. are. gently
No trace of old 1/16 sec. cor. can be found.
Set an iron post. 3 ft long. 3 ins in diam. 24 ins in the ground for ^{re-established} Cor 7
marked on brass. Cop. R19E on E half. T 28 N. S 33 in NE. T 27 N S 4 in S.E. S 5 in S W and S 32 in NW. quadrants.
Dig pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dia and raise a mound of earth 4 ft base, 2 ft. high. W. of cor. No trace of old sec. cor. can be found.
Land rolling
Soil sandy 3rd rate.
November

64.0
20.00
21.55

N. 89° 58' E., Feb. sec. 4 and 33, resurveying to 1/4 sec. cor.
Ascend N.W. slope over hilly sandy land through sage and greasewood brush and digrowth.
Dry ravine 30 lbs wide 20 ft deep course NW.
No trace of old 1/16 sec. cor. can be found
Dry ravine 40 lbs wide 15 ft deep course NW.
Set an iron post 3 ft. long 1 in in diam 26 ins in the ground for ^{re-established} Cor 4
marked on brass. Cop 4 S 33 on N half and 34 on E half.

40.90
44.00
45.80
48.50
49.80
54.00
58.00
65.00
69.60
70.00
71.60
76.00
78.10

Dig pits 18 x 18 x 12 ins E and W of post 3 ft. dia and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor. No trace of old 1/4 sec. cor. can be found.
Thence completing survey of N. bdy. of Tp. 27 N. - R. 19 E.
Dry ravine Course NE. are
Top of ridge trail NE and S.W. desc
Dry ravine Course NE are.
Top of ridge trail NE and S.W. desc.
Dry ravine Course NE are.
Top of ridge trail NE and S.W. desc.
Dry ravine Course NE are
Top of ridge trail NE and S.W. desc
Dry ravine Course NW. are
Top of ridge trail NE and S.W. desc
Dry ravine Course NE. are

BOOK 2577

80.00 Set an iron fork, 3 ft. long, 3 ins. in diam 24 ins in the ground for cor. of sec. 3, 4, 33 and 34 marked on base of T 19 E on E half. T 28 N. 33 4 in N.E. T 27 N S 3 in S.E. S 4 in S.W. and S 33 in N.W. quadrant

Dig pits 18 x 18 x 12 ins. in each. sec. 5 1/2 ft. dia and raise a mound of earth 4 ft. base 2 ft. high W of cor.

Land hilly.

Soil sandy 3rd rate.

No timber

N. 89° 58' E, bet. sec 3 and 34,

Ascend West slope of mesa over stony mountainous land.

5.50 Top of sandstone bluff, 75 ft. above cor. base N.E. and S.W.

12.85 Ledges 20 ft. high base N.E. and S.W.

16.00 Top of sandstone ledge 20 ft. high base N.E. and S.W.

19.00 Top of sandstone wall, 60 ft. high base N.E. and S.W.

23.00 Top of ascent on West edge of mesa base N.E. and S.W. level mountainous land base N.E. and S.W. enter rolling land covered with scrub cedar timber base N.E. and S.W.

28.10 East edge of mesa base N.E. and S.W. desc. E. slope over mountainous land base N.E. and S.W.

30.60 Dry ravine course N.E. asc. spur

34.50 Top of spur base N.E. and S.W. desc.

37.50 Dry ravine course N.E. asc.

39.90 Top of spur base N. and S. desc.

40.00 Set an iron fork, 3 ft. long, 1 1/2 ins. in diam 26 ins in the ground. for 4 sec. cor. marked on base of T 19 E. S 34 on N. half. and S 30 on S. half, from which. A cedar 6 ins. in diam base N 41° E 30 lbs. dist mkd 1/4 S 34 B.T.

A cedar 12 ins. in diam base S 65° E 105 lbs. dist mkd 1/4 S 3 B.T.

42.20 Dry ravine course N.E. asc.

Survey of portion of North boundary of T₂₇N, R₁₉E,
Chas.

17

- 43.75 Top of spur trail N.E. and S.W. desc.
 46.00 Dry ravine Course N.E. asc.
 48.75 Top of spur trail N.E. and S.W. desc.
 57.65 Dry ravine Course N.E. asc.
 58.50 Top of ridge trail N.E. and S.W. desc.
 61.40 Dry ravine Course N.W. asc. abruptly
 70.50 Foot of cliffs 100 ft. high. trail N.E. and S.W.
 72.50 Top of cliffs trail N.E. and S.W. Low mountainous
 land trail N.E. and S.W. Enter rolling mesa land.
 trail N.E. and S.W.
 80.00 Set an iron post 3 ft. long 3 in. in diam 24 in. in
 the ground for cor of sec 29, 30 and 35 m^kd. on
 trail cor R₁₉E on E half. T₂₈N, S₃₅ in N.E. T₂₇N,
 S₂ in S.E. S₃ in S.W. and S₃₄ in N.W. quadrant
 from which.
 A cedar 10 in. in diam trail N 70¹/₂° E 100 lbs. dia
 m^kd T₂₈N, R₁₉E S₃₅ B.T.
 A cedar 12 in. in diam trail S 16¹/₂° E 159 lbs. dia
 m^kd T₂₇N, R₁₉E S₂ B.T.
 A cedar 7 in. in diam trail S 24° W 57 lbs. dia,
 m^kd T₂₇N, R₁₉E S₃ B.T.
 A cedar 4 in. in diam trail N 70¹/₂° W 27 lbs. dia
 m^kd T₂₈N, R₁₉E S₃₄ B.T.
 Land rolling and mountainous
 Soil sandy and stony 3rd and 4th rate
 Number Cedar
 Mountainous land. 67.40 Chas

N. 89° 58' E., bet. sec 2 and 35,

Over rolling sandy mesa land through scrub
cedar timber

- 6.50 East edge of mesa trail N.E. and S.W., level
 rolling mesa land. trail N.E. and S.W. desc. steep
 E slope over stony mountainous land trail N.E.
 and S.W.

- 12.00 Dry ravine Course N.E. asc. steeply.
 16.00 Top of spur trail N.E. and S.W. desc.
 24.00 Dry ravine Course N.E. asc.

BOOK 2577

- 24.80 Top of spur trail NE and SW desc
- 27.70 Dry ravine Course NE asc.
- 33.25 Top of spur trail NE and SW desc.
- 37.50 Dry ravine Course N. asc., A spring in head of ravine trail. South from this point 200 chs dist.
- 39.80 Top of spur trail NE and SW desc.
- 40.00 Set an iron post 3 ft. long 1 in in diam 26 ins in the ground for $\frac{1}{4}$ sec. cor. mkd on brass cap $\frac{1}{4}$ S 35 on N. half and S 2 on S half.
- Dig pits 18 x 18 x 12 ins E and W of post 3 ft. dist and raise a mound of earth 3 $\frac{1}{2}$ ft. tall $1\frac{1}{2}$ ft high N. of cor.
- No trees suitable for leaning trees within the prescribed limits
- A stone house trail S 37 $\frac{3}{4}$ ° E 11.00 chs. dist
- 42.25 Dry ravine Course N.W. asc abruptly
- 49.40 Top Cliffs 100 ft. above $\frac{1}{4}$ sec cor. on W edge of point of mesa trail NE and SW. level mountainous land trail NE and SW, enter rolling mesa land trail NE and SW.
- 53.00 Top of land ridge trail NE and SW desc gradually on S.E. slope
- 64.25 East edge of point of mesa trail rolling land trail NE and SW. desc abrupt. E slope over stony mountainous land trail NE and SW.
- 68.50 Dry ravine in bottom of canyon 100 ft. below top of mesa Course NE. asc abruptly
- 72.00 Top of curb on W edge of mesa trail mountainous land trail NE and SW, enter rolling mesa land trail NE and SW.
- 80.00 Set an iron post 3 ft. long 3 ins in diam 24 ins in the ground for cor. of sec., 1, 2, 35 and 36. marked on brass cap R 19 E on E half. T 28 N S 36 in NE T 27 N S 1 in S.E. S 2 in SW and S 35 in NW quadrant, from which.
- A cedar 10 ins in diam trail N 24 $\frac{1}{2}$ ° E 57 lbs dist mkd T 28 N R 19 E S 36 B.T.
- A cedar 6 ins in diam trail S 27° E 227 lbs dist mkd T 27 N R 19 E S 1 B.T.
- A cedar 8 ins in diam trail S 16 $\frac{1}{2}$ ° W 145 lbs dist mkd T 27 N. R 19 E S 2 B.T.
- A cedar 5 ins in diam trail N 41 $\frac{1}{2}$ ° W 135 lbs dist

Survey of portion of North boundary of T₂₈N, R₁₉E S₃₅BT.
Chains

19

marked T₂₈N, R₁₉E S₃₅BT.
Land rolling and mountainous
Soil sandy and stony 3rd and 4th rate
Number Cedar
Mountainous land. 5065 chs.

N. 89° 58' E., bet. sec 1 and 36,
Over rolling sandy mesa land through
cedar timber

40.00 Set an iron post 3 ft. long 1 in. in diam 26 in.
in the ground for $\frac{1}{4}$ sec. cor. mhd. at cross
cap $\frac{1}{4}$ S 36 on N half and S 1 on S. half from
which.

A cedar 8 in. in diam bears N 0 $\frac{1}{2}$ ° E 67 chs.
dit. mhd $\frac{1}{4}$ S 36 B.T.

A cedar 7 in. in diam bears S 77 $\frac{3}{4}$ ° W 101 chs.
dit mhd $\frac{1}{4}$ S 1 B.T.

65.40 Head of Canyon 1 ch. wide bears N.E. and S.W.

80.00 The cor. of T₂₇ and T₂₈N, R's 19 and 20 E,
hereinbefore described

Land rolling
Soil sandy and stony 3rd and 4th rate.
Number Cedar

August 13th 1908

Sidney E. Blout
U. S. Examiner of Surveys

see Exterior Book "O"

LIST OF NAMES.

A list of the names of the individuals employed by *Sidney E. Blount*

U.S. Examiner of Surveys
~~U.S. Examiner of Surveys~~, United States Deputy Surveyor,

to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of *portions of the East and North boundaries and resurvey of the West and portions of the East and North sides of Tp. No. 27 N. - Range No. 19 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona.* showing the respective capacities in which they acted:

Fred L. Warner, Chainman.

Van L. White, Chainman.

Harry J. Hassler, Moundman.

~~Moundman~~

Chas G. Dutton, Axman.

~~Axman~~

R E Claborne, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

_____ of the _____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____ day of _____ 190_____



EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, Sidney E. Blout, United States ~~Deputy Surveyor~~ ^{Examiner of Surveys}, do solemnly swear that, in pursuance of ~~a contract~~ ^{Special Instructions} received from ~~the Commissioner of the United States Surveyor General Land Office~~ ^{the Commissioner of the}, bearing date of the ~~2nd day of Oct. 1907~~ ^{and the 15th day of May}, 1908, I 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 Land Office~~ ^{Commissioner of the}, the Manual of Surveying Instructions, and the laws of the United States, surveyed ^{or resurveyed} all those parts or portions of ~~the~~ ^{the} East, West and North boundaries of Township N° 27 North, Range N° 19 East of the Gila and Salt River Base and Meridian, in the ~~Territory~~ ^{or resurveyed} of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey, ^{and resurvey} have been established ^{or re-established} and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ~~United States Surveyor General for Land Office~~ ^{Commissioner of the} and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey ^{and resurvey}.

See

United States ~~Deputy Surveyor~~ ^{Examiner of Surveys}.

Subscribed by said Sidney E. Blout, and sworn to before me }
this _____ day of _____, 1908



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1904

The foregoing field notes of the survey of portions of the East and North boundaries and resurvey of the West and portions of the East and North boundaries of Township N° 27 North, Range N° 19 East of the Gila and Salt River Base and Meridian, Arizona.

executed by Sidney E. Blout U.S. Examiner of Surveys under ~~his contract No.~~ ^{Special Instructions from the Commissioner of the General Land Office}, dated October 2, 1907 and May 15, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys ^{and resurveys} they describe, are hereby approved.

Frank A. Ingalls
~~United States Surveyor General.~~
SURVEYOR-GENERAL OF ARIZONA

~~I certify that the foregoing transcript of the field notes of the above described surveys in _____ has been correctly copied from the original notes on file in this office.~~

~~United States Surveyor General.~~