

Exterior
BOOK "AF"

BOOK 2559

FIELD NOTES

OF THE SURVEY OF THE

East boundary of Twp. No. 28 North of Range No. 14 East

Of the *Gila and Salt River Base and* Meridian,

in the Territory of Arizona

AS EXECUTED BY

Sidney E. Blount, United States ~~Deputy Surveyor~~ ^{Examiner of Surveys}

Under ~~his Contract No.~~ *Special Instructions from The Commissioner of the General Land Office* dated *Oct 2nd 1907 and May 15th*, 1908

Survey commenced *December 4th*, 1909

Survey completed *December 4th*, 1909

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BOOK 2559

NAMES AND DUTIES OF ASSISTANTS.

| | |
|--------------------------|--------------------|
| <i>Van L. White</i> | <i>Comptroller</i> |
| <i>Fred L. Warner</i> | <i>Chairman</i> |
| <i>Earl Albright</i> | <i>Chairman</i> |
| <i>William R. Carson</i> | <i>Member</i> |
| <i>Chas L. Shumway</i> | <i>Agent</i> |
| <i>Ralph Sampson</i> | <i>Plagman</i> |

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BOOK 2559

INDEX DIAGRAM.

Township No. 28 No., Range No. 14 E.

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

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PRELIMINARY OATHS OF ASSISTANTS.

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



.....
.....

See Exterior Book "M"

Survey commenced December 4th 1909 and executed with a W & L. E. Gurly engineers transit No. 76 with a Burt Solar attachments; the horizontal limb is provided with a double micrometer, reading to single minutes of arc. The micrometers of the latitude and declination arcs read to 0' 30" of arc. I examined the adjustments of the transit and find them to be as nearly perfect as I can make them and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by observation on Polaris, that the instrument is in satisfactory adjustment, therefore I begin at the Cor. of Twp 27 and 28 N. R 14 and 15 E. which I established November 18th 1909, as ^{described in Exterior Book "AD"} latitude $35^{\circ} 46' 14''$ N. longitude $110^{\circ} 47' 45''$ W.

At 8^h 00^m ^{limit} set off $35^{\circ} 46\frac{1}{2}'$ N. on the lat. arc $22^{\circ} 09' 3''$ on the decl. arc and determine a meridian with the solar at the above Cor. Thence I run,

North, Ch. sec. 31 and 36,

Over rolling sandy and adobe land, through sage and greasewood brush undergrowth and bunch grass.

21.85 Dry ravine 30 lks. wide 8 ft. deep course S.E. and

32.00 Enter scattering cedar timber bears E and W.

38.00 Top of ridge bears E and W. 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. marked on bears Cap $\frac{1}{4}$ S 36 on W. half and S 31 on E. half, find which. A cedar 6 ins. in diam. bears N $24\frac{3}{4}^{\circ}$ E 129 lks. dist. marked $\frac{1}{4}$ S 31 B.T.

A cedar 4 ins. in diam. bears N $61\frac{1}{2}^{\circ}$ W 90 lks. dist. marked $\frac{1}{4}$ S 36 B.T.

41.70 Dry ravine 25 lks. wide 2 ft. deep course S.E. and

54.00 Top of sand ridge bears E and W. desc.

75.80 Dry ravine course S.E. and

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

80.00 Set an iron post 3 ft. long 3 in. in diam. 24 ins. in the ground for Cor. of sec. 25, 30, 31 and 36. marked on bears Cap. T 25 N. in N. half. T 14 E S 25 in N.W. R 15 E S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrants

from which.

A cedar 6 ins. in diam. bears $N 59^{\circ} E$ 146 lbs. dist. marked T₂₈N. R₁₅E S 30 B.T.

A cedar 4 ins. in diam. bears $S 78\frac{3}{4}^{\circ} E$ 59 lbs. dist. marked T₂₈N. R₁₅E. S 31 B.T.

A cedar 5 ins. in diam bears $S 59\frac{3}{4}^{\circ} W$ 86 lbs. dist. marked T₂₈N. R₁₄E. S 36 B.T. and.

A cedar 5 ins. in diam. bears $N 88\frac{3}{4}^{\circ} W$. 118 lbs. dist. marked T₂₈N. R₁₄E S 25 B.T.

Land rolling and hilly.

Soil sandy and adobe 3rd rate.

Timber Cedar

North, Feb. sec 25 and 30,

descend N.E. slope over hilly sandy and adobe land through scattering cedar timber. and sage and greasewood undergrowth and bunch grass

2.75 Top of range 10 ft. wide course S.E. asc.

6.00 Top of high stony ridge bears E. and W. desc.

6.40 Top of range course S.E. asc.

15.50 Top of sand stone ledge 20 ft. high bears E and W. ascend abruptly

16.00 Top of sand stone ledge bears E and W. asc gradually

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. Cor. marked on base cap. $\frac{1}{4} E 25$ on W half, and S 30 on E. half. from which.

A cedar 8 ins. in diam. bears $N 47\frac{1}{2}^{\circ} E$ 169 lbs. dist. marked $\frac{1}{4} S 30$ B.T.

A cedar 8 ins. in diam. bears $N 16\frac{1}{2}^{\circ} W$ 169 lbs. dist. marked $\frac{1}{4} S 25$ B.T.

58.25 Top of steep rocky ascent on S. edge of mesa bears N.E. and S.W. Ascend gradually.

68.70 Top of high divide bears N.E. and S.W. desc. gently over N.W. slope.

79.90 Top of sand stone ledge 10 ft. high bears N.W. and S.E. descend abruptly

80.00 The point for the cor. of sec. 19. 24. 25 and 30 falls on sand stone ledge in place where I am unable to establish a post cor. therefore, set a cross at the exact cor. point. and at

80.45 Set an iron post. 3 ft. long 3 ins. in diam 24 ins

Cash boundary of Pp. 2876. R. 14 E.

Chains

in the ground for witness cor to the cor. of secs. 19, 24, 25 and 30. marked on brass cap. W.C.T. 2876. in N. half, R14 E S 24 in NW. R15 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrant, from which. A pinion pine 6 ins. in diam. bears N 42 1/2° E 304 lbs. dist marked W.C.T. 2876. R15 E S 19 B.T. A pinion pine 8 ins. in diam. bears S 59 1/4° E. 159 lbs. dist marked W.C.T. 2876. R15 E S 30 B.T.

No other trees suitable for bearing trees available. Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Land broken and hilly. Soil sandy adobe and stony 3rd and 4th rate. Timber pinion pine and cedar.

From true point for cor. of secs. 19, 24, 25 and 30, on ledge, I run, North, bet. secs. 19 and 24, descend steep rocky N.W. slope over hilly land through scattering pinion pine and cedar timber and bunch grass.

0.45 Witness corner for cor. of secs. 19, 24, 25 and 30, hereinbefore described.
6.50 Top of sand stone bluff 25 ft. high bears N.W. and S.E. desc. abruptly.

13.70 Dry ravine course N.E. asc. bears stony land. bears N.E. and S.W., enter sandy land bears N.E. and S.W.

18.50 Top of high sand ridge bears N.E. and S.W. desc. steeply.

29.70 Dry ravine course N.E. asc.

33.50 Top of ridge bears E and W. desc.

40.00 Set an iron post 3 ft. long 1 in in diam. 26 ins in the ground for 1/4 sec. Cor. marked on brass cap. N 45 24 on W half and S 19 on E. half, from which. A cedar 5 ins. in diam. bears N 15 1/4° E 148 lbs. dist. marked 1/4 S 19 B.T.

A cedar 6 ins. in diam. bears S 14 1/4° W 82 lbs dist. marked 1/4 S 24 B.T.

45.45 South edge of canyon bears E and W. desc.

50.00 Bottom of canyon course W.

56.10 North edge of canyon on sand stone ledge bears E and W ascend gradually S. slope of sand ridge

58.50 Top of ridge bears E and W. desc.

60.65 Dry ravine course W. asc.

65.50 Top of rocky ridge bears E and W. desc into Canyon
 70.31 Descend abruptly over sand stone bluff 100 ft. high
 71.50 Foot of bluff bears N.E. and S.W. desc. gradually
 76.50 Dry ravine in bottom of Canyon course W. arc
 79.86 Foot of sand stone cliff 100 ft. high bears E and W. arc. Red timber bears N.E. and S.W.
 79.95 Top of ascent on N. side of Canyon. are gradually
 80.00 The point for the cor. of secs. 13, 18, 19 and 24 falls on sand stone ledge, where I am unable to establish a post cor. therefore I cut a cross at the exact cor. point and ab.
 80.50 Set an iron post 2 ft. long, 3 ins. in diam. 24 ins. in the ground for witness cor. to the cor. of secs. 13, 18, 19 and 24, marked on brass cap W.C. T. 2876. in N. half, R 14 E S 13 in N.W. R 15 E. S 18 in N.E. S 19 in S.E. and S 24 in S.W. quadrants.
 Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. (It is impracticable)
 Land hilly and broken.
 Soil sandy and stony 3rd and 4th rate.
 Timber pine and cedar
 This cor. is situated at the foot of sand stone peak on point of mesa bears N.W. and S.E. and about 50 lbs. from the W. edge.
 NOTE: - At this cor. I cut off 22° 13' S. on the decl. arc and at noon observe the sun on the meridian and obtain on the lab. arc a reading of 35° 49' 16.

From true point for cor. of secs. 13, 18, 19 and 24, on ledge, I run,
 North, 1/2 sec. 13 and 18,
 Over stony mesa land through scattering sage brush and hard grass

0.50 Witness corner to cor. of secs. 13, 18, 19 and 24, hereinbefore described.
 4.40 North edge of mesa bears N.W. and S.E., leave rolling mesa land, enter hilly, sandy land bears N.W. and S.E. descend steeply over N.E. slope
 28.00 Dry ravine 25 lbs wide course N.W. arc.
 32.25 Top of ridge bears E and W. Enter scattering Red timber bears E and W. desc N. slope of ridge
 37.40 The same ravine course N.E.
 39.50 The same ravine course N.W.
 40.00 The point for the 1/4 sec. cor. falls in the bottom of the above ravine course N.E., where natural

Chains

- Causes would insure the destruction of the cor.
Therefore I continue my line, asc. S slope and ab.
- 41.25 Set an iron post 3^{ft} long, 1 in. in diam. 26 ins in the ground for ~~the~~ cor. to the 4^{sec}. cor marked on brass Cap. T 28N, R 14E S 13 on W half. T 28N, R 15E S 18 on E. half. and W.C. $\frac{1}{4}$ in S half., from which.
A Cedar 5 ins. in diam. bears S $1\frac{1}{4}$ ° W 224 lbs. dist. marked W.C. $\frac{1}{4}$ S 13 B.T.
No other trees suitable for bearing trees available
Dig pits 18x18x12 ins. N and S of post 3^{ft} dist. and raise a mound of earth $5\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 42.05 The same ravine course N.W., leave timber bears N.W. and S.E.
- 49.20 Left bank of dry ravine 5^{ft} deep bears E and W.
- 50.05 Right bank of dry ravine bears E and W. - cross out crop of coal vein in this ravine - asc.
- 61.50 Top of sand ridge bears E and W. desc.
- 73.00 Dry ravine course S.W. asc.
- 74.50 Top of sand ridge bears N.E. and S.W. desc.
- 75.75 Dry ravine course S.W. asc.
- 80.00 Set an iron post 3^{ft} long, 3 ins in diam. 24 ins. in the ground for cor. of sec. 7, 12, 13 and 18. marked on brass Cap T 28N. in N half, R 14E S 12 in N.W. R 15E. S 7 in N.E. S 18 in S.E. and S 13 in S.W. quadrants.
Dig pits 18x18x12 ins. in each. sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
Land broken and hilly.
Soil sandy and stony 3rd and 4th rate.
Timber pine, fir and Cedar.
-
- North, bet. sec. 7 and 12,
Ascend S.E. slope over hilly sandy land through scattering sage and greasewood bush undergrowth and bunch grass.
- 1.00 Top of sand ridge bears N.E. and S.W. desc.
- 2.05 Dry ravine course W. asc.
- 13.00 Top of sand ridge bears E and W. desc.

- 20.20 Dry ravine Course S.W. asc.
- 26.00 Top of ridge bears N.E. and S.W. desc.
- 29.10 Dry ravine Course S.W. asc.
- 33.50 Top of sand ridge bears N.E. and S.W. desc.
- 35.30 Dry ravine Course S.W. asc.
- 40.00 See an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked 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. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high W. of cor.
- 55.00 Old road to Indian hogans on De Nekto Wash. bears E and W.
- 63.35 Dry ravine 30 lbs. wide 5 ft. deep course S.W.
- 80.00 See an iron post 3 ft. long 3 ins. in diam. 24 ins in the ground for cor. of secs. 1, 6, 7 and 12. marked on brass cap T 28 N in N half. T 14 E S 1 in N.W. T 15 E S 6 in N.E. S 7 in S.E. and S 12 in S.W. quadrants.
Dig pits 18x18x12 ins. in each. sec. 5 $\frac{1}{2}$ ft. dia. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land hilly.
Soil & study 3rd rate.
No timber
-
- North, h. sec. 1 and 6;
Ascend S. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass
- 21.00 Top of sand ridge bears E and W. desc.
- 22.70 Dry ravine Course S.E. asc.
- 30.00 Top of sand ridge bears N.E. and S.W. desc.
- 34.00 Dry ravine Course N.E. asc.
- 37.00 Top of ridge bears N.E. and S.W. desc.
- 40.00 See an iron post. 3 ft. long 1 in. in diam. 26 ins. in the ground for $\frac{1}{4}$ sec. cor. marked 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. dia. and raise a mound of earth 3 $\frac{1}{2}$ ft. base. 1 $\frac{1}{2}$ ft. high. W. of cor.
- 77.76 Intersect the 7th Standard Parallel North. 37.50 Ch. W. of the Standard Cor. of Twp. 29 N. R 14 and 15 E

Behaim

which I established April 24th 1909, as described in Standard Book "C"
 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
 the ground for closing cor. of T_{28N}. R_{14E} and
 15E. marked on below cap. T 29 N. R 14 E. R 15 E. S 31.
 S 36 in N. half. C.C. T 28 N. in S. half. R 15 E S 6 in
 SE. and R 14 E. S 1 in S.W. quadrant.

Dig pits 30x24x12 ins. crosswise on each line E and
 W. 4 ft. and S. of 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 rate.
 No timber.

December 4th 1912

Boundaries of T_{28N}. R_{15E}.
 Latitudes Departures and Closing errors.

| LINE DESIGNATED | TRUE BEARING | DISTANCE | LATITUDES | | DEPARTURES | |
|----------------------|--------------|---------------|-----------|---------------|------------|--------|
| | | | N | S | E | W |
| | | CHS | CHS. | CHS | CHS | CHS. |
| South Boundary | N 89° 58' W | 479.38 | 0.28 | | | 479.38 |
| West Boundary | NORTH | 477.76 | 477.76 | | | |
| North Boundary | | | | | | |
| (7th Std. Par North) | E 65° 7' | 478.68 | | | 478.68 | |
| East Boundary | South | 477.82 | | 477.82 | | |
| Convergency | | | | | 51 | |
| TOTALS | | | 478.04 | 477.82 | 479.19 | 479.38 |
| | | | 477.82 | | | 479.19 |
| | | Error in Lat. | 0.22 | | | |
| | | | | Error in Dep. | | 0.19 |

General Description

This township is broken and mountainous in the eastern and south eastern parts, rolling and level in the central, and hilly in the Western and North western parts, while prairie land is found over the greater portion.

The township is watered by the De Veto Wash. which flows water several months during the year, and by wells which the Navajo Indians have constructed,

The township is timbered with Cedar and Pinion pine in the eastern and south eastern

parts.

The bottom land along the DeHebits wash. is a sandy loam which produced good crops of Corn without irrigation

The township should be subdivided.

Sidney B. Blount

December 4th 1909

U.S. Examiner of Surveys

U.S. EXAMINER OF SURVEYS
FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blouh

Examiner of Surveys
~~Deputy Surveyor~~, 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 the East

boundary of Twp. 28 N., R. 14 E. of the G. & S. R. Base & Mer., Arizona.

showing the respective capacities in which they acted:

- Fred L. Warner Chainman Compassman
- Carl Albright Chainman
- William R. Carson Moundman
- Chas. L. Shumway Axman
- Ralph Sampson Flagman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blouh

Examiner of Surveys
~~Deputy Surveyor~~, United States ~~Deputy Surveyor~~, in surveying all

those parts or portions of the East boundary of Twp. 28 N., R. 14 E. of the

Salt River of the Gila and

Salt River Base Meridian, Territory of Arizona, 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 executed and the

corner monuments established, according to the instructions furnished by the United States General for of the General Land Office Van L. White Compassman

Carl Albright and Fred L. Warner, Chainmen

William R. Carson, Moundman

Chas. L. Shumway, Axman

Ralph C. Sampson, Flagman

Subscribed and sworn to before me this 22nd
day of December, 1909

Sidney E. Blouh
U.S. Examiner of Surveys



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EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Sidney E. Blout, ^{Examiner of Surveys} ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of ~~a contract~~ ^{Special Instructions} received from ~~the Commissioner of the United States Surveyor General for~~ ^{the Commissioner of the} ~~General Land Office~~, bearing date of the 2nd day of Oct. 1907 ~~and~~ ^{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~~ ^{Commissioner} ~~of the General Land Office~~, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The East boundary of Twp. No. 28 N., Range 14 East.

of the Gila and Salt River Base and Meridian, in the Territory 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 have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the ~~United States Surveyor General for~~ ^{Commissioner} ~~of the General Land Office~~ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

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

Subscribed by said Sidney E. Blout, and sworn to before me }
this 14th day of March, 1901

Frank A. Sgall
SURVEYOR-GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona **APR 25**, 1904

The foregoing field notes of the survey of the

East boundary of

Township No. 28 North - Range No. 14 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, ~~190~~, 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. Sgall
~~United States Surveyor General~~

~~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.~~