

Exterior
BOOK "K"

2538

FIELD NOTES

OF THE SURVEY OF THE

*The North Boundary
of Township No 25 North Range
No 16 East.*

Of the *Gila and Salt River Base* ^{2nd} Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

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

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

Survey commenced *October 29th*, 1908

Survey completed *October 30th*, 1908

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NAMES AND DUTIES OF ASSISTANTS.

Van L White	Compassman
Frederic L. Warner	Chairman
Rolph N. Wutrand	Chairman
Jay E. Jeddick	Chairman
Char. L. Shumway	Woundman
Robt E. Claiborne	Flagman
Harry Lake May	Flagman

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INDEX DIAGRAM.

Township No 25 North, Range No 16 East

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PRELIMINARY OATHS OF ASSISTANTS.
same applies to Exterior Books "I", "J", "M", "N", "O" & "Z"

WE, Fred L. Warner, Ralph S. Westraud and Jay E. Jellick.

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

part of the East bdy. of Tp. 27 N. R. 15 E. and
The Exterior boundaries of Twp 25 and 26 N. R. 15 and 16 E.
and resurvey of the E. bdy. of Tp. 28 N. R. 15 E. and part of E. bdy. of T. 27 N. R. 15 E. of the G. & S. R. Base & Mer. Arizona

Fred L. Warner, Chainman.
Ralph S. Westraud and Jay E. Jellick, Chainmen.

Subscribed and sworn to before me this 26th
day of October, 1908

Sidney E. Blount
U.S. Examiner of Surveys



WE, Charles L. Shumway and Fred L. Warner

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

part of the East bdy. of Tp. 27 N. R. 15 E. and
The Exterior boundaries of Twp 25 and 26 N. R. 15 and 16 E.
and resurvey of the E. bdy. of Tp. 28 N. R. 15 E. and part of the E. bdy. of T. 27 N. R. 15 E. of the G. & S. R. Base & Mer. Ariz.

Chas L. Shumway Moundman.
Fred L. Warner, Moundman.

Subscribed and sworn to before me this 26th
day of October, 1908

Sidney E. Blount
U.S. Examiner of Surveys



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_____



WE, Robt. C. Claborn & Harry Lake May, do solemnly swear that ^{we} will well and truly perform the duties of flagmen according to instructions given ^{us} to the best of ^{our} skill and ability, in the

survey of part of the East bdy. of Tp. 27 N. R. 15 E. and
The Exterior boundaries of Twp 25 and 26 N. R. 15 and 16 E.
and resurvey of the E. bdy. of Tp. 28 N. R. 15 E. and part of the E. bdy. of T. 27 N. R. 15 E. of the G. & S. R. Base & Mer. Arizona.

Harry Lake May and Robt. C. Claborn, Flagmen.

Subscribed and sworn to before me this 26th
day of October, 1908

Sidney E. Blount
U.S. Examiner of Surveys



North boundary of Tps 25 N. R 16 E.

Chains

Sunny commenced October 29th 1908. and executed with a Young & 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.

Examined the adjustments of the transit and find them to be perfect. and know from recent tests of the solar apparatus. by comparing the results of observations made on the sun during a.m. and p.m. hours. with a meridian established by observations on Polaris. that the instrument is in satisfactory adjustment therefore begin at the cor of Tps. 25 and 26 N. R 16 and 17 E ^{on the 4th Guide Meridian East} which I established Sept 6. 1908. as described in Standard Book "A" Latitude $35^{\circ} 35' 48''$ N. Longitude $110^{\circ} 34' 59''$ W.

At 8^h 14^m a.m. L. in. D. set off $35^{\circ} 36'$ N. on the lat. arc, $13^{\circ} 25\frac{1}{2}'$ S. on the decl. arc. and determine a meridian with the solar. therefore I run,

West on a random line along the N. bdy. of Tps. 25 N. R 16 E, setting temp $\frac{1}{4}$ sec. and sec. cor. at intervals of 4000 chs. and at 480.26 chs. intersect the W. bdy of Tps. 270 chs. S. of the cor. of Tps. 25 and 26 N. R 15 and 16 E. which I established Oct. 28th 1908 as described in Exterior Book "I"

The falling answer to a correction of $0^{\circ} 19'$ or 45 chs. N. per mile counting from the N.E. cor. of the Tps. therefore I run,

$S 89^{\circ} 41' E.$ for sec. 6 and 31, marking the true line, Over low rolling sand hills. through scattering sage and greasewood brush. undergrowth and bunch grass.

40.26 Set an iron post. 3 ft. long. 1 in. in diam. 26 in. in the ground for $\frac{1}{4}$ sec. cor. marked on brass Cap. $\frac{1}{4}$ S 31 on N. half and 36 on S. half.

Dig pits 18 x 18 x 12 in. E and W. of post. 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N. of cor.

80.26 Set an iron post. 4 ft. long. 3 in. in diam. 36 in. in the ground for cor. of sec. 5, 6 31 and 32. marked on brass Cap R 16 E on E half. T 26 N S 32. in N.E.

North boundary of T₂₅N₁₃W₁₆E

T₂₅N₁₃W₁₆E. 56 in S.E. 56 in S.W. and 331 in N.W. quadrants
 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.
 Sand hilly.
 Soil sandy 3rd rate.
 No timber

- S₈₉°41'E., beh. sec. 5 and 32,
 ascend W. slope of sand ridge over rolling sandy
 land through scattering sage and greasewood bush
 and bunch grass.
- 31.00 Top of sand ridge bears N.E. and S.W. desc. over S.E.
 slope.
- 40.00 Set raw iron post. 5 ft. long 1 in. in diam. 26 ins. in
 the ground for 1/4 sec. Cor. marked on brass cap.
 1/4 S 32 on N. half. and S. 5 on S. half.
 Dig pits 18x18x12 ins. East W. of post. 3 ft. dia and
 raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high.
 W. of cor.

October 29th 1908

Note. Clouds obscure the sun at noon today rendering
 an observation for latitude impossible with
 the solar.

- Oct 30th 1908 At 8^h 45^m a.m. ^{1 m. t.} Set off 35° 36' N. on the
 lat. arc. 13° 45 1/2' S. on the decl. arc and determine
 a meridian with the solar at the 1/4 sec cor. bet.
 sec. 5 and 32. ^{above described} these I run,
 S₈₉°41'E., beh. sec. 5 and 32,
- 71.00 Dry ravine Course S. asc.
- 77.00 Top of ridge bears N.E. and S.W. desc.
- 80.00 Set raw iron post. 4 ft. long 3 ins. in diam. 36 ins. in
 the ground for cor. of sec. 4, 5, 32, and 33 marked
 on brass cap. T₁₆E. on E. half. N₂₆W, S₃₃ in N.E.
 T₂₅N, S₄ in S.E. S₅ in S.W. and S₃₂ in N.W.
 quadrants.
 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.
 Sand hilly.
 Soil sandy 3rd rate
 No timber

S 89° 41' E, bet sees 4 and 33,
 Descend S.E. slope over hilly sandy land through
 sage and greasewood bush undergrowth, and
 bunch grass.

20.00 Foot of descent, leave hilly land bears N.E. and S.W.
 enter level adobe land bears N.E. and S.W.

20.35 Road from Winslow Arizona to Placea Arizona
 bears N.E. and S.W.

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 brass cop.
 $\frac{1}{4}$ S 33 on N. half. and S 4 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. base, $1\frac{1}{2}$ ft.
 high. N. of cor.

80.00 Set an iron post 4 ft. long 3 ins. in diam. 36
 ins. in the ground for cor. of sees 3, 4, 33 and
 34 marked on brass cop. R 16 E on E half. T 26 N S 34
 in N.E. T 25 N S 3 in S.E. S 4 in S.W. and S 33
 in N.W. quadrants.
 Dig pits 18 x 15 x 12 ins. in each see $5\frac{1}{2}$ ft. dist.
 and raise a mound of earth 4 ft. base, 2 ft.
 high. W. of cor.
 Land level and hilly.
 Soil sandy and adobe 2nd and 3rd rate.
 No timber.

S 89° 41' E, bet sees 3 and 31,
 Over level adobe land through sage and greasewood
 bush undergrowth

1.00 Placea Wash. 156 lbs, wide 20 ft. deep course S.W.

25.35 Dry gulch 100 lbs wide 20 ft. deep course S.W.

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 brass cop.
 1/4 S 34 on N. half. and S 3 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. base
 $1\frac{1}{2}$ ft. high. N. of cor.

42.50 Leave level land bears N.E. and S.W. Enter hilly,
 sandy land bears N.E. and S.W. ascend N.W. slope

80.00 Set an iron post 4 ft. long 3 ins. in diam. 36
 ins. in the ground for cor. of sees 2, 3, 34

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and 36' marked on brass cap T₁₆ E. on E half
T₂₆ N 3 35 in NE, T₂₅ N. 3 2 in S.E. 3 3 in SW.
and 3 4 in N.W. quadrants.

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.
Rayed level and hilly.
Soil sandy and clover 3rd rate.
No timber

S 89° 41' E, Ch. sec. 2 and 36,

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

7.15 Top of sand ridge bears N and S. desc.

15.00 Dry ravine course NW. asc SW. slope

18.65 Top of ascent, on bluffs 75 ft. high, leave
hilly land bears NE. and SW., latter rolling. Land
bears NE. and SW.

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 4 3 35 on N. half and 3 2 on S half
Dig pits 18x18x12 ins. East W. of post 3 ft. dist
and raise a mound of earth 3 1/2 ft. base, 1/2
ft. high N. of cor.

73.00 Dry ravine course NW. 200 lbs. wide, 10 ft. deep.

80.00 Set an iron post 4 ft. long 3 ins in diam. 36 ins.
in the ground for cor. of sec 1, 2, 3, 5 and 36.
marked on brass cap T₁₆ E. on E half T₂₆ N 3 36
in NE, T₂₅ N. 3 1 in S.E. 3 2 in SW. and 3 35 in N.W.
quadrants.

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.

Land hilly and rolling.

Soil sandy 3rd rate.

No timber

At this cor. I set off 13° 50' S. on the decl. arc. and at noon
observe the sun on the meridian the resulting latitude
being 35° 36' N.

S 89° 41' E 1/4 sec. 1 and 36,
 Descend N.E. slope over rolling sandy land through
 scattering sage and greasewood brush and bunch grass
 26.00 Dry ravine 8 ch wide 25 ft deep course N.W.
 35.00 Dry ravine 4 ch wide 15 ft deep course N.W.
 40.00 Set an iron post 3 ft long 1 in diameter 26 ins
 in the ground for 1/4 sec. Cor. marked on brass
 cap 1/4 S 36 on N. half and S 1 on S half.
 Dig pits 18x18x12 ins. East W. of post 3
 ft. high, and raise a mound of earth 3 1/2 ft.
 base 1 1/2 ft high N. of Cor.
 80.00 Intersect the ^{4th} Guide Meridian East at the
 Twp. of Twp. 25 and 26 N. R's 16 and
 17 E. which I established Sept. 6, 1908, as described in
 Standard Book "A"
 Land rolling.
 Soil sandy 3rd rate.
 No timber.

October 30th 1908.

Boundaries of Twp 25 N. R 16 E.
 Latitudes Departures and Closing Errors.

LINE DESIGNATED	BEARING	DISTANCE	LATITUDES		DEPARTURES	
			N	S	E	W
South Boundary	N. 89° 56' W	80.06	0.85	0.85	0.85	0.85
(6 th Standard Parallel North)	N. 89° 46' W	80.30	.09			80.06
	N. 89° 42' W	320.01	.33			80.30
West Boundary	North	480.00	480.00			320.01
North Boundary	S 89° 41' E	480.26		2.65	480.26	
East Boundary (4 th Guide Meridian East)	South	480.00		480.00		
Convergency					0.51	
Totals →			482.08	482.65	480.77	480.37
				482.08	480.37	
			Error in Lat	0.57		
					Error in Dep.	0.40

Widney E. Blount
 U.S. Examiner of Surveys.

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

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LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Blout
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 The North
boundary of Twp. No. 25 N. R. No. 16 E. of the Gila and Salt River Base
showing the respective capacities in which they acted: and Meridian, in the Territory of Arizona.

Fred L. Warner Chainman.
Ralph N. Westlund Chainman.
Jay E. Jellick Moundman.
Chas. L. Shumway Moundman.
..... Axman.
..... Axman.

Harvey Lake May, and Robt E. Labourel 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

Handwritten: "Exterior" with a circle around the letter "O", and "Book" written vertically.

..... Chainman.
..... Chainman.
..... Moundman.
..... Moundman.
..... Axman.
..... Axman.
..... Flagman.

Subscribed and sworn to before me this
day of, 190.....



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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 October 1907 and 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 Land Office~~ ^{Commissioner of the}, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ~~the~~ ^{North boundary of} Township N° 25 North, Range N° 16 East of the Gila and Salt River Base and Meridian, in the ~~Territory~~ ^{State} 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 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.

J. C.

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

Subscribed by said Sidney E. Blout, and sworn to before me }
this _____ day of _____, 190



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25, 1904

The foregoing field notes of the survey of ~~the~~ ^{North boundary of} Township N° 25 North, Range N° 16 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 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.~~