

Exterior
"BOOK" "AN"

2567

FIELD NOTES

OF THE SURVEY OF THE

North Boundary of Tp 29 N. R. 13 E.

Of the Gila and Salt River Basins Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Van L. White, U.S. Assistant, United States Deputy Surveyor,
Special Instructions from the Commissioner of the General Land Office.

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

Survey commenced January 24th 1911, ~~190~~

Survey completed January 24th 1911, ~~190~~

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BOOK 2567

NAMES AND DUTIES OF ASSISTANTS.

T. Y. White	Chairman
Richard L. Shumway	Chairman
George B. Seig	Moundman
Harry Keyops	Moundman
Nelson Polacca	Axman
William R. Carson	Flagman

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BOOK 2567

Book No. 2567

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White and Richard L. Shumway
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 N. Boundary of Tp 29 N. R. 13 E. of the G. & S. R. Base & Mer., Arizona.
T. Y. White, Chainman.
Richard L. Shumway, Chainman.

Subscribed and sworn to before me this 24th
day of January, 1901



Van L. White
U.S. Transitman

WE, George B. Seig and Harry Keyopt
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 N. Boundary of Tp 29 N. R. 13 E. of the G. & S. R. Base & Mer., Arizona.
George B. Seig, Moundman.
Harry Keyopt, Moundman.

Subscribed and sworn to before me this 24th
day of January, 1901



Van L. White
U.S. Transitman

I, Nelson Polacca
do solemnly swear that ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ ^{me}, to the best of ~~our~~ ^{my} skill and ability, in the survey of N. Boundary of Tp 29 N. R. 13 E. of the G. & S. R. Base & Mer., Arizona.
Nelson Polacca, Axman.

Subscribed and sworn to before me this 24th
day of January, 1901



Van L. White
U.S. Transitman

I, William R. Carson, 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 N. Boundary of Tp 29 N. R. 13 E. of the G. & S. R. Base & Mer., Arizona.
William R. Carson, Flagman.

Subscribed and sworn to before me this 24th
day of January, 1901



Van L. White
U.S. Transitman

Chains

North boundary of Twp 29 N., R 13 East.

Survey commenced January 24th 1911. and executed with a W. & L. E. Gurley engineers transit No. 76 with a Bush Solar attachment. The horizontal limb is provided with one double vernier reading to single minutes of arc. The verniers of the latitude and declination arcs reading to 0' 30" of arc. Examine the adjustments of the transit and find them correct and know from recent tests of the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris that the instrument is in satisfactory adjustment.

For last complete test of the instrument see the field notes of the survey of the Third Guide Meridian East through Twp 29 N., R's 12 and 13 East, in Standard Book "R".

Begin at the cor. of Twp. 29 and 30 N., R's 13 and 14 E., which established September 27th 1910.

Latitude $35^{\circ} 56' 41''$ N. Longitude $110^{\circ} 53' 38''$ W.

At 8⁴² a.m. l.m. set off $35^{\circ} 56\frac{1}{2}'$ N. on the lat. arc $19^{\circ} 19' 3''$ on the decl. arc, and determine a meridian with the solar., thence run,

West on a random line, along the N. side of Twp 29 N., R 13 E., setting temp^{1/4} sec. and sec. cors. at intervals of 40.00 lbs., and at 179.64 lbs. intersect the 3rd Guide Meridian East. 30 lbs. S. of the cor. of

Twp. 29 and 30 N., R's 12 and 13 E. which established January 23rd 1911, as described in Standard Book "R". The falling answer to a correction of $0^{\circ} 02'$, or 5 lbs. North, per mile, counting from the N.E. cor. of the Twp., therefore run,

S. $89^{\circ} 58' E.$, beh. sec. 6 and 31, marking and blazing true line,

Over low rolling sand hills, through scattering sage brush.

15.14 Depression bears N and S, drains to the South, are

21.15 Top of sand ridge bears N and S. dire.

39.64 Set an iron post 3 ft. long 1 in. in diam., 26 ins. in the ground for ^{1/4} sec. cor. marked on brass Cop ^{1/4} S 31 on N. half and S 6 on S. half.

Dig pits 18x18x12 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.

75.00

Proof of descent in depression bears N.E. and S.W. drains S.W.

North boundary of T₂₉N. R13E.

79.64 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 5, 6, 31 and 32. marked on brass cap R13E. in E. half. T 30 N S 32 in N.E. T 29 N. S 5 in S.E. S 6 in S.W. and S 31 in N.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 sand hills.

Soil sandy 3rd rate.

No timber

NOTE: At this cor. Set off 19° 18' 1/2" S. on the decl arc and at noon observe the sun on the meridian and obtain a reading of 35° 56' 1/2" N. on the lat. arc.

S 89° 58' E, bet. sec. 5 and 32,

Ascend over S.W. slope through sage and greasewood bush undergrowth and bunch grass

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 14532 on N. half and S 5 on S. half.

Dig pits 18x18x12 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.

80.00 Set an iron post. 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 4, 5, 32 and 33 marked on brass cap R13E. in E. half T 30 N. S 33 in N.E.

T 29 N. S 4 in S.E. S 5 in S.W. and S 32 in N.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

Soil sandy 3rd rate.

No timber

S 89° 58' E, bet. sec. 4 and 33,

Ascend S.W. slope over rolling sandy land through sage and greasewood bush undergrowth and bunch.

North boundary of Twp 29 N, R 13 E.

Chains

140.00 grass
 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 1/4 S 33 on N. half and S 4 on S. half
 Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34 marked on brass cap R 13 E. in E half. T 30 N S 34 in N.E. T 29 N S 3 in S.E. S 4 in S.W. and S 33 in N.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.

Land rolling.
 Soil sandy 3rd rate.
 No timber

S 89° 38' E, bet. secs. 3 and 34,
 ascend West. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass

1.00 Top of sand ridge bears N. and S. desc.
 27.45 Pryman's 10 Chv. wide 10 ft. below top of ridge course South asc.
 30.50 Top of sand ridge bears N 25° E and S 25° W. desc. E. slope.

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 1/4 S 34 on N. half and S 3 on S. half
 Dig pits 18x18x12 ins. E and W. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

54.70 Road from Grants Arizona to Muba Arizona bears N 60° W. and S 60° E.

80.00 Set an iron post 3 ft long 3 ins in diam. 24 ins in the ground for cor of secs. 2, 3, 34, and 35 marked on brass cap R 13 E. in E half. T 30 N S 35 in N.E. T 29 N S 2 in S.E. S 3 in S.W. and S 34 in N.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.
Land lully,
Soil sandy 3rd rate
No timber

S. 89° 58' E., Feb. sec. 2 and 35,

Descend E. slope over rolling sandy land through
sage and greasewood brush undergrowth and
bunch grass.

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 T4 S35
on N. half and S2. 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 1/2 ft. base 1 1/2 ft. high.
No cor

54.00 Top of descent in depression bears N and S. drains
to the north side.

61.80 An Indian Hogan bears S 80 lbs dist.

71.55 Road to Hogan bears N and S.

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. R13 E. in E. half. T30 N S36
in N.E. T29 N. 31 in. S.E. 32 in S.W. and 335 in
N.W. quadrant.

Dig pits 18 x 18 x 12 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 rolling.
Soil sandy 3rd rate.
No timber.

S. 89° 58' E., Feb. sec 1 and 36,

Ascend West. slope over rolling sandy land
through sage and greasewood brush undergrowth
and bunch grass.

1.50 Top of ridge bears N and S. desc. E. slope.

18.68 Dry ravine 30 lbs. wide course N 20° E asc.

37.00 Top of clay ridge bears N and S. 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.

North boundary of Twp 29 N., R 13 E.

Chain

- 45.00 14536 on N. half and 31 on S. half.
Raise a mound of stone 2 ft. base 1/2 ft. high. N. of cor. Pit's impracticable
- 62.67 Dry ravine 40 lbs wide course N 30° W. Leads rolling sandy land bears N 30° W and S 30° E. Enter stony hilly land; ascend steep W. slope
- 80.00 9 ft. of ascent on sand stone ledge bears N 20° W and S 20° E, low hilly land bears N 20° W and S 20° E. Enter rolling sandy land, along S. slope.
- Intersect the cor. of Tps. 29 and 30 N., R's 13 and 14 E., described in Exterior Book "AQ".
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
No timber

January 24th 1911

Boundaries of Twp. 29 N., R 13 E.
Latitudes Departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N	S	E	W
South Boundary (7 th Standard Parallel North)	West	480.00				480.00
West Boundary (7 th Guide Meridian East)	North	480.00	480.00			
North Boundary	389°58'E	479.64		0.28	479.64	
East Boundary	South	480.00		480.00		
Convergency					.51	
TOTALS			480.00	480.28 480.00	480.15 480.00	480.00
			Error in Lat.	0.28		Error in Dep.
						0.15

General Description

This township is hilly and broken in the eastern and southeastern parts, and rolling in the central, western and northern parts. The township can nearly all be classed as prairie land with very little agricultural land in the south eastern part. The township is poorly watered, and has very little timber. The township should be subdivided.

January 24th 1911

Van L. White
U.S. Transition

U.S. TRANSITMAN
FINAL OATHS OF ~~DEPUTY SURVEYOR~~ AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Van L. White
U.S. Transitman, ~~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 N. Bdry.
of Tp 29 N. R 13 E. of the G. & S. R. Base & Meridian, Arizona
showing the respective capacities in which they acted:

- T. Y. White Chainman.
- Richard L. Shumway Chainman.
- George B. Seig Moundman.
- Harry Keyopfe Moundman.
- Nelson Polacca Axman.
- Axman.
- William R. Carson Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Van L. White
U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all
those parts or portions of the N. Bdry of Tp 29 N. R. 13 E.

..... of the Gila and
Salt River Basins 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 ~~surveyed~~ ^{executed}, and the
corner monuments established, according to the instructions furnished by the ~~United States Surveyor~~

- ~~General for~~ Commissioner of the General Land Office
- J. Y. White Chainman.
 - Richard L. Shumway Chainman.
 - George B. Seig Moundman.
 - Harry Keyopfe Moundman.
 - Nelson Polacca Axman.
 - Axman.
 - William R. Carson Flagman.

Subscribed and sworn to before me this
day of, 190

Van L. White
U.S. Transitman



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BOOK 2567

TRANSITMAN
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Van L. White ^{Transitman} United States Deputy Surveyor, do solemnly swear that, in pursuance of ~~a contract~~ ^{Special Instructions} received from 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~~ ^{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 North boundary of Township No. 29 North of Range No. 13 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~~ ^{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.

Van L. White
United States Deputy Surveyor
Transitman

Subscribed by said Van L. White, and sworn to before me }
this 27th day of December, 1907



Lydon R. Taylor
U.S. Commissioner
at Las Cruces, N.M.

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 No. 29 North, Range No. 13 East of the
Gila and Salt River Base and Meridian, Arizona.
executed by VAN L. WHITE, U.S. Transitman, under Special Instructions from
executed by the Commissioner of the General Land Office
under his contract No. _____, 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 they describe, are hereby approved.

Frank S. 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