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Exterior
BOOK "AM"

2566

BOOK 2566

FIELD NOTES

OF THE SURVEY OF THE

North Boundary of Township
No. 27 North, Range No. 13 East

of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Van L. White U.S. Mansitman, ~~United States Deputy Surveyor~~

Special Instructions from the Commissioner of the General Land Office

Under ~~his Contract No.~~, dated ~~Oct 2nd 1907~~ and ~~May 13th 1908~~

Survey commenced ~~October 29th~~, 1910

Survey completed ~~November 1st~~, 1910

NAMES AND DUTIES OF ASSISTANTS.

T. Y. White	Chairman
Oscar W. Fetters	Chairman
Ralph C. Sampson	Moundman
George B. Seig	Axman
Nelson Polacco	Axman
William R. Carson	Flagman

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Township 27 N , Range 13 E

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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White and Oscar W Fetters
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. Bdry Tp 27 N. R. 13 E of the G. & S. R. Base & Mer, Arizona

T. Y. White, Chainman.
Oscar W Fetters, Chainman.

Subscribed and sworn to before me this 29th
day of Oct., 1910



Van L. White
U.S. Transitman

I, Ralph C. Sampson and

do solemnly swear that ~~we~~ ^I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~ ^{me} to the best of ~~my~~ ^{my} skill and ability, in the survey of

N. Bdry Tp 27 N. R. 13 E of the G. & S. R. Base & Mer, Arizona

Ralph C. Sampson, Moundman.
Moundman.

Subscribed and sworn to before me this 29th
day of Oct., 1910



Van L. White
U.S. Transitman

WE, George B. Seig and Nelson Polacca

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

N. Bdry. Tp 27 N. R. 13 E. of the G. & S. R. Base & Mer, Arizona

George B. Seig, Axman.
Nelson Polacca, Axman.

Subscribed and sworn to before me this 29th
day of Oct., 1910



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. Bdry. Tp 27 N. R. 13 E of the G. & S. R. Base & Mer, Arizona

William R Carson, Flagman.

Subscribed and sworn to before me this 29th
day of Oct., 1910



Van L. White
U.S. Transitman

North boundary of Twp 27 N., R 13 E.

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Survey commenced. October 29th 1910, and executed with a W & L. E. Surber engineers transit no. 76 with a Burt 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 check the level and collimation errors, then to test the solar apparatus by comparing its indications resulting from solar observations made during a m. and p. m. hour with a meridian determined by observation on Polaris & proceed as follows.

At my camp which is located near the cor. of sec. 15, 16, 21 and 22 Twp 27, N., R 13 E., Latitude $35^{\circ} 43' 37''$ N. Longitude $110^{\circ} 57\frac{1}{2}''$ W.

At 7^h 42^m p. m. l.m. l. by my watch which is correct local mean time I observed Polaris in accordance with instructions in the manual and mark the direction by a nail driven in a stake set in the ground 5.00 Ch. N. of my instrument.

Astronomical time of observation October 29 1910	7 ^h 42 ^m
Equivalent to time of October 28 th	31 42.

Astron time U.C. Polaris Oct. 15 th	11 ^h 54.9 ^m	
Reduction to 28 th Part II Subtract	51.1	
Astron time U.C. Polaris Oct 28 th	11 03.8	Subtract <u>11 03.8</u>
Hour angle of Polaris at observation		20 38.2
Subtract from		<u>23 56.1</u>
True azimuth for Table VII		3 18
Azimuth of Polaris at observation		1 ^o 06' E

October 29th 1910

Oct. 30th 1910 At 8^h 00^m a.m. l.m. l. lay off the azimuth of Polaris 1^o 06' to the west and mark the meridian thus determined by a tack driven in a stake set firmly in the ground 5.00 Ch. N. of my instrument.

At 8^h 44^m a.m. l.m. l. Set off $35^{\circ} 43\frac{1}{2}'$ N. on the lat. arc. $13^{\circ} 37'$ S. on the decl arc. and determine a

North boundary of Twp 27 N. R13 E.

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meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 Chs N. of my instrument on which the solar meridian falls 0.3 ins. E. of the meridian established by the Polaris observation

At noon I set off 13°40' S. on the decl. arc and observed the sun on the meridian and obtain a reading of 35°43½' N. on the lab. arc.

At 3^h 44^m p.m. I set off 35°43½' N. on the lab. arc. 13°43½' S. on the decl. arc and determine a meridian with the solar and mark a point thereof by a tack driven in the stake already set 5.00 Chs N. of my instrument. This point falls 0.1 ins. west of the meridian established by the Polaris observation.

The solar apparatus by a.m. and p.m. observations defined positions for meridians respectively about 10'15" E and 0'05" west of the meridian established by the Polaris observations therefore I conclude that the adjustments of the instrument are satisfactory

I again at the Cor. of Twp. 27 and 28 N. R13 and 14 E. ^{as by Sidney E. Blout, Dec. 22/1909} which is an iron post 3 ins. in diam. 12 ins. above ground firmly set. marked on bears cap T28 N. in N. half and T27 N. in S. half., R13 E S36 in N.W., R14 E S31 in N.E., R17 E S6 in S.E. and R13 E. S1 in S.W. quadrants, with pits 24x24x12 ins N.E. and W. 4 ft. and S. of post. 8 ft. dia. and mound of earth 5 ft. base, 2½ ft. high 3 of cor.

Latitude 35°46'14" N., Longitude 110°54'09" W.

October 31st 1910. At 7^h 44^m a.m. I set off 35°46¼' N. on the lab. arc. 13°54½' S. on the decl. arc. and determine a meridian with the solar at the above described cor., thence I run,

S89°59' W, on a random line, along the N. side of Twp 27 N. R13 E., setting temp ¼ sec. and see cor. at intervals of 40.00 and 80.00 Chs. and at 477.92 Chs. Intersect the 3rd Guide Meridian

East. 17 lvs. N. of the cor. of Twp. 27 and 28 N. R12 and 13 E. ^{as described in Standard Book "P"} which I established October 29 1910.

The falling arrows to a correction of 0'01' or about 3 lvs. S. per mile counting from the N.E. Cor. of Twp

Chains

North boundary of Tp 27 N, R 13 E.

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therefore run

N 89° 58' E, bet. sec. 6 and 31, marking and blazing true line.

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

10.00 Top of ridge bears N.E. and S.W. descend gentle S.E. slope over rolling land.

37.92 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 cap $\frac{1}{4}$ S 31 on N. half and 36 on S. half.Dig pits 18 x 18 x 12 ins. 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.

NOTE: At this cor. I set off 14° 00' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 35° 46' N. on the lab. arc.

77.92 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 T 13 E in E half, T 28 N, S 32 in N.E. T 27 N, S 5 on S.E., 36 in S.W. and 39 in N.W. quadrants.

Raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits unpracticable.

Land rolling

Soil sandy 3rd rate

No timber.

N 89° 58' E, bet. sec. 5 and 32,

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

8.00 Foot of descent in depression bears N.W. and S.E. drains to the N.W. sec.

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 cap $\frac{1}{4}$ S 32 on N. half. and 35 on S. half.Dig pits 18 x 18 x 12 ins. 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.

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42.00 Top of sand ridge bears N and S. desc. E slope
 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, T²⁸N
 S³³ in N.E., T²⁷N. S⁴ in S.E., S⁵ in S.W. and
 S³² in N.W. quadrant.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. deep.
 and raise a mound of earth 4 ft. base, 2 ft. high
 W. of cor.
 Land rolling
 Soil sandy 3rd rate.
 No timber

N. 89° 58' E, bet. sec. 4 and 33,
 ascend 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.
 1/4 S 33 on N. half and S 4 on S. half
 Dig pits 18x18x12 ins. E and W. of post. 3 ft. deep.
 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. 3, 4, 33 and 34
 marked on brass cap. R¹³E in E. half, T²⁸N S³⁴
 in N.E., T²⁷N. S³ in S.E., S⁴ in S.W. and S³³
 in N.W. quadrant.
 Dig pits 18x18x12 ins. in each sec. 5 1/2 ft. deep.
 and raise a mound of earth 4 ft. base, 2 ft. high
 W. of cor.
 Land rolling
 Soil sandy 3rd rate.
 No timber

October 31st 1910.

Worm bur 1st 1910, Ab 8^h 44^m a.m. Lmt I
 set off 35° 46 1/4' N. on the lab. arc. 14° 16' S. on
 the decl arc and determine a meridian with
 the solar at the cor. of sec. 3, 4, 33 and 34, above described,
 thence I run,

Chains

North boundary of T₂₇N, R₁₃E.

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- N. 89° 58' E., bet. sec. 3 and 34,
 Descend S.E. slope over rolling sandy land through
 sage and greasewood bush undergrowth and
 bunch grass.
- 8.00 Foot of descent. Leave rolling land bears N and
 S, Enter level land bears N and S.
- 30.40 Leave level land bears N.E. and S.W. Enter
 rolling land. bears N.E. and S.W., desc gentle
 S.E. slope.
- 40.00 Set an iron post 3 ft. long 1 in. in diam. 26 in.
 in the ground for $\frac{1}{4}$ S.E. cor. marked on brass
 cap $\frac{1}{4}$ S 34 on N. half and S 3 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. face 1 $\frac{1}{2}$ ft.
 high N. of cor.
- 66.50 High bank of the De Nebeto Wash. 25 ft. high.
 bears N 35° E. and S 35° W. Stream water 12 ft. wide
 2 in. deep. Leave undergrowth bears N.E. and S.W.
- 68.40 Lf bank of the De Nebeto Wash 25 ft. high. bears
 N 35° E and S 35° W. Enter undergrowth bears N.E.
 and S.W.
- 72.75 Dry ravine 20 lbs. wide 5 ft. deep course S.W.
- 80.00 Set an iron post 3 ft. long 3 in. in diam. 24 in.
 in the ground for Cor. of sec. 2, 3, 34, and 35 -
 marked on brass cap R₁₃E. in E half, T₂₈N, S₃₅-
 in N.E. T₂₇N S₂ in S.E. S₃ in S.W. and S₃₄ in
 N.W. quadrant.
 Dig pits 18 X 18 X 12 in. 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 level and rolling.
 Soil sandy 2nd and 3rd rate.
 No timber
-
- N. 89° 58' E., bet. sec. 2 and 35,
 Over rolling sandy and adobe land through
 sage and greasewood bush undergrowth and
 bunch grass.
- 2.70 Dry gulch 10 lbs. wide 4 ft. deep course S.W.
- 8.00 Plain gradual ascent over N.W. slope.
 Road bears N 30° E and S 30° W

North boundary of Twp 27 N, R 13 E.

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 cap 4th 35 on N. half and 32 on S. half
Dig pits 18x18x12 ins. 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.

48.00 Top of sand ridge bears N 35° E and S 35° W. dec.

72.00 Noon of descent level rolling land bears N.W. and S.E. Enter level land bears N.W. and S.E.

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 13 E. in E half. T 28 N S 36 in N.E., T 27 N S 1 in S.E. 32 in S.W. and 335 in N.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 rolling and level.

Soil sandy 3rd rate.

No timber

N. 89° 58' E, Feb. sec. 1 and 36,

Over level sandy land through sage and greasewood bush and bunch grass

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 cap. 14th 36 on N. half and 31 on S. half.
Dig pits 18x18x12 ins. 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.

NOTE: - At this cor. set off 14° 19 $\frac{1}{2}$ ' S. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 35° 46' N. on the hor. arc.

80.00 Intersect the cor. of Twp. 27 and 28 N, R 13 and 14 E. described in Exterior Book "AC".

Land level and rolling

Soil sandy 3rd rate.

No timber

March 1st 1910.

Boundaries of Twp 27 N., R 13 E E.
 Latitudes Departures and Closing errors

Line Designated.	True Course	Distance	Latitudes		Departures	
			N	S	E	W
South Boundary	S 89° 59' W	478.86	CHS	0.14		478.86
West Boundary (3. Guide Meridian East)	North	480.00	480.00			
North Boundary	N 89° 58' E	477.92	0.28		477.92	
East Boundary	South	480.00		480.00		
Convergence					0.51	
TOTALS			480.28	480.14	478.43	478.86
			480.14			478.43
Error in Lat.			0.14			
					Error in Dep. 0.43	

General Description

This township is hilly in the eastern and southern parts, rolling in the north eastern and north western parts with some level land along the De Nebeto Wash. in the central part. Prairie land is found over the larger portion of the township, and there is some good farming land in the central part along the De Nebeto Wash.

The township is poorly timbered and poorly watered. The township should be subdivided.

November 1st 1910

Jan L. White
 U.S. Deputee

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

LIST OF NAMES.

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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 Tp 27 N. R. 13 E. of the G. & S. R. Base & Meridian, Arizona showing the respective capacities in which they acted:

- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacca, 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 Tp 27 N. R. 13 E.

of the Sila and Salt River base and 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~~

- Commissioner of the General Land Office
- T. Y. White, Chainman.
- Oscar W. Fetters, Chainman.
- Ralph C. Sampson, Moundman.
- George B. Seig, Axman.
- Nelson Polacca, Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 1st day of November, 1910

Van L. White
U.S. Transitman



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~~ ^{the Commissioner of the} United States Surveyor General for ~~General Land Office~~ ^{General Land Office}, bearing date of the ~~2nd day of Oct. 1907~~ ^{2nd day of Oct. 1907} day of ~~and the 15th day of May~~ ^{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~~ ^{General Land Office}, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the North boundary of Township No. 27 North of Range 20. 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~~ ^{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, 1912.

Lytton R. Taylor
U.S. Commissioner
at Las Vegas, N.M.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, APR 25, 1914

The foregoing field notes of the survey of the

North boundary of

Township No. 27 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.~~