

Exterior
BOOK "AK"

2564

FIELD NOTES

OF THE SURVEY OF THE

North Boundary of Township
No 27 North, Range No 20 East

Of the Gila and Salt River Base and Meridian,

in the Territory of Arizona

EXECUTED
AS SURVEYED BY

Van L. White U.S. Nearestman, ~~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 ~~September 10th~~, 1910

Survey completed ~~September 10th~~, 1910

(LB)

BOOK 2564

INDEX DIAGRAM.

Township *27 N.*, Range *20 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 North Boundary of Tp 27 N. R 20 E. of the G. & S. R. Base & Mer, Arizona.

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

Subscribed and sworn to before me this 9th
day of Sept, 1910 }



Van L. White
U.S. Transitway

I, Ralph C. Sampson
do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ ^{me}, to the best of ~~my~~ ^{my} skill and ability, in the survey of North Boundary of Tp 27 N R 20 E of the G. & S. R. Base & Mer, Arizona

Ralph C. Sampson, Moundman.
Moundman.

Subscribed and sworn to before me this 9th
day of Sept, 1910 }



Van L. White
U.S. Transitway

I, George B. Seig
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 ~~my~~ ^{my} skill and ability, in the survey of N. Bdry. of Tp. 27 N. R 20 E of the G. & S. R. Base & Mer, Arizona

George B. Seig, Axman.
Axman.

Subscribed and sworn to before me this 9th
day of Sept, 1910 }



Van L. White
U.S. Transitway

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 of Tp 27 N R 20 E of the G. & S. R. Base & Mer, Arizona.

William R Carson, Flagman.

Subscribed and sworn to before me this 9th
day of Sept, 1910 }



Van L. White
U.S. Transitway

Chains

Survey commenced September 10th 1910. 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.

I examined the adjustments of the transit and find them perfect. 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 established by observations on Polaris. that the instrument is in satisfactory adjustment.

I begin at the cor. of Np. 27 and 28 N., R 20 and 21 E. established July 25th 1910.

by Sidney E. Blout, as described in Standard Book "M"
Latitude. $35^{\circ}46'14''$ N., Longitude $110^{\circ}09'26''$ W.

At 7^h 28^m a.m. l.m.t. Sept 10th 1910 I set up of $35^{\circ}46'$ N. on the lat. arc. $5^{\circ}10'$ N. on the decl. arc and determine a meridian with the solar. at the above Np. cor., thence I run;

West; on a true line, bet. sec. 1 and 36, descend S.W. slope over hilly, sandy and stony land. through scattering cedar and pinon pine timber and sage brush undergrowth

- 2.75 Dry rocky ravine 16 lks. wide, 20 ft. below cor. corner South. etc.
- 8.55 Road leads to Keams Canyon. Arizona bears N. and S.
- 25.00 Top of sand ridge bears N. and S. due.
- 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 out brass cap. $\frac{1}{4}$ S 36 on N. half and S 1 on S half, from which a Cedar 8 ins. in diam. bears N. $16\frac{3}{4}^{\circ}$ W 245 lks. dist. marked $\frac{1}{4}$ S. 36 B.T. and a Cedar 6 ins. in diam. bears S 27° E 167 lks. dist. marked $\frac{1}{4}$ S 1 B.T.
- 57.30 Road to Keams Canyon Arizona bears N 50° W, and S 50° E.
- 62.00 Leave timber 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 out brass cap. R 20 E. in E half. T 28 N. S 36 in N.E.

North boundary of T₂₇N, R₂₀E.

T₂₇N, S₁ in S.E., S₂ in S.W. and S₃₅ in N.W.

quadrant

Dig pits 18 x 18 x 12 ins. in each. sec. 5½ ft. dia. and
raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land hilly and rolling.

Soil sandy and stony 3rd and 4th rate.

Number Cedar. and juniper pine.

West, bet. sec. 2 and 35,

Ascend S.E. slope over sandy mesa land through
sage and greasewood brush undergrowth and
brush grass.

13.00 Enter scattering cedar timber head N and S.

19.30 Road to Steam Canyon Arizona head N 15° W. and
S 15° E.

40.00 Set an iron post 3 ft. long 1 in. in diam. 26 ins.
in the ground. for ¼ sec. cor. marked on brass cap.
¼ S 35° W N. half. and S 2° W S half. from which.
A cedar 12 ins. in diam. head N 8½° W 31 lbs. dia.
marked ¼ S 35 B.T. and

A cedar 4 ins. in diam. head S 45½° E 286 lbs. dia.
marked ¼ S 2 B.T.

71.36 Road to Steam Canyon Arizona head N 45° W and
S 45° E.

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in
the ground for cor. of sec. 2, 3, 34 and 35, marked
on brass cap. R₂₀E. in E. half., T₂₈N, S₃₅ in
N.E., T₂₇N, S₂ in S.E. S₃ in S.W. and S₃₄ in N.W.
quadrant.

No trees suitable for bearing trees within limits
Dig pits 18 x 18 x 12 ins. in each. sec. 5½ ft. dia.
and raise a mound of earth 4 ft. base 2 ft. high.
W. of cor.

Land rolling mesa land.

Soil sandy 3rd rate.

Number scattering cedars.

West; bet. sec. 3 and 34,

Ascend S.E. slope over rolling sandy mesa land
through scattering cedar timber and sage brush

North boundary of T₂₇N., R₂₀E.

Chains.

11.32 undergrowth
 Trail to Steam Canyon Arizona bears N.W. and S.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
 14 S 34 on N. half and S 3 on S. half, from which.
 A cedar 8 ins. in diam. bears N 34 $\frac{1}{2}$ W 171 lbs. dist.
 marked $\frac{1}{4}$ S 34 B.T. and
 A cedar 5 ins. in diam. bears S 17 $\frac{1}{2}$ E 51 lbs. dist.
 marked $\frac{1}{4}$ S 3 B.T.
 44.00 Top of Divide bears N 75° E and S 75° W. desc.
 along N.W. slope
 80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins.
 in the ground for cor. of sec. 34, 33 and 34
 marked on brass cap T 20 E in E half, T 28 N.
 S 34 in N.E., T 27 N. S 3 in S.E., S 4 in S.W. and
 S 33 in N.W. quadrant, from which.
 A Cedar 4 ins. in diam. bears N 71 $\frac{1}{2}$ E 116 lbs. dist.
 marked T 28 N. R 20 E S 34 B.T.
 A cedar 8 ins. in diam. bears S 14 $\frac{3}{4}$ E 102 lbs. dist.
 marked T 27 N. R 20 E. S 3 B.T.
 A juniper pine 5 ins. in diam. bears S 35° W 101
 lbs. dist. marked T 27 N. R 20 E S 4 B.T. and
 A Cedar 6 ins. in diam. bears N 12° W 46 lbs. dist.
 marked T 28 N. R 20 E S 33 B.T.
 Land rolling
 Soil sandy ~~and~~ rate.
 Timber juniper pine and cedar

West; bet. sec. 4 and 33,
 Descend gently over N.W. slopes through scattering
 juniper pine and cedar timber and sage brush.
 undergrowth and bunch grass
 16.15 Road from Steam Canyon Arizona to Holbrook
 Arizona bears N 20° E and S 20° W.
 32.47 Road to Steam Canyon Arizona bears N. and S.
 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 33 on N. half. and S 4 on S. half
 from which.
 A cedar 10 ins. in diam. bears N. 59° W 89 lbs.
 dist. marked $\frac{1}{4}$ S 33 B.T.

North boundary of T₂₇N, R₂₀E.

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A cedar 5 ins. in diam bears S 87½° W. 84 lbs. dist. marked ¼ S 4 BT.

NOTE: - At this cor. set off 5° 04½' N. on the decl. arc and at noon observe the sun on the meridian and obtain a reading of 35° 46' N. on the lat. arc.

60.48 Road to Placed Arizona bears N. 25° W and S 25° E.

68.00 Leave rolling land bear N.E. and S.W., enter hilly land. Descend steep N.W. slope

74.10 Dry ravine 10 lbs. wide course N.W. arc.

76.00 Top of rocky ridge bears N.W. and S.E. desc.

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 out brass Cap. R 20 E in E half, T 28 N. S 33 in N.E. T 27 N. S 4 in S.E. S 5 in S.W. and S 32 in N.W. quadrant. from which.

A pinon pine 8 ins. in diam. bears N 64° E 103 lbs. dist. marked T 28 N, R 20 E S 33 B.T.

A pinon pine 5 ins. in diam. bears S 9½° E 95 lbs. dist. marked T 27 N, R 20 E S 4 B.T.

A cedar 18 ins. in diam. bears S 57° W 125 lbs. dist. marked T 27 N R 20 E S 5 B.T. and.

A cedar 15 ins. in diam. bears N, 75½° W 108 lbs. dist. marked T 28 N, R 20 E S 32 B.T.

Land rolling and hilly.

Soil sandy 3rd rate.

Timber pinon pine and cedar.

Work, Feb. sec. 5 and 32,

Descend S.W. slope over hilly, sandy and stony land through scattering pinon pine and cedar timber and sage brush undergrowth.

2.55 Dry ravine 30 lbs. wide course N 30° W. asc.

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

13.10 Wood road bears N 35° W and S 35° E.

25.95 Dry ravine 15 lbs. wide course North. arc.

27.00 Top of ridge bears N and S. desc.

27.55 Dry ravine course N.W. arc. gradually along N slope

40.00 Set an iron post 3 ft. long 1 in. in diam 26 ins. in the ground for ¼ sec. cor. marked out brass

- Cap $\frac{1}{4}$ S 32 W $\frac{1}{2}$ half and S 5 W $\frac{1}{2}$ half from which.
- A pinion pine 5 ins. in diam. bears $N 75 \frac{1}{4}^{\circ} E 98$ lbs. dist. marked $\frac{1}{4} S 32 B.T.$ and
- A cedar 5 ins. in diam. bears $S 25 \frac{1}{2}^{\circ} E 43$ lbs. dist. marked $\frac{1}{4} S 5 B.T.$
- 80.00 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 base Cap. R 20 E in E half, T 28 N, S 32 in N.E. T 27 N, S 5 in S.E. S 6 in S.W and S 31 in N.W quadrant. from which.
- A cedar 8 ins. in diam. bears $N 34 \frac{3}{4}^{\circ} E 126$ lbs. dist. marked T 28 N, R 20 E S 32 B.T.
- A cedar 7 ins. in diam. bears $S 46 \frac{3}{4}^{\circ} E 164$ lbs. dist. marked T 27 N, R 20 E S 5 B.T.
- A cedar 16 ins. in diam bears $S 76 \frac{1}{4} W 181$ lbs. dist. marked T 27 N, R 20 E S 6 B.T. and
- A cedar 10 ins. in diam bears $N 5^{\circ} W 81$ lbs. dist. marked T 28 N, R 20 E, S 31 B.T.
- Land hilly.
Soil sandy and stony 3rd rate.
Timber pinion pine and cedar.
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- West. edge sec. 6 and 31,
Over steep N.W. slope through scattering cedar and pinion pine timber and sage brush undergrowth.
- 10.10 Dry ravine 20 lbs. wide course $N 45^{\circ} W$. all 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. $\frac{1}{4} S 31$ W $\frac{1}{2}$ half and S 6 W $\frac{1}{2}$ half, from which.
- A cedar 8 ins. in diam bears $N 63 \frac{1}{2}^{\circ} W 75$ lbs. dist. marked $\frac{1}{4} S 31 B.T.$ and.
- A cedar 12 ins. in diam. bears $S 40^{\circ} E 112$ lbs. dist. marked $\frac{1}{4} S 6 B.T.$
- 41.00 Top of sand ridge bears N and S. due.
- 54.84 East. edge of Canyon bears N and S due.
- 59.00 Bottom of Canyon course N.
- 65.00 West edge of Canyon bears N and S, thence over rolling sandy land

North boundary of T₂₇N, R₂₀E

Chains

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67.04 Interior West boundary of T₅S₂ Ch₅ S. of the Cor. of T₂₇N, R₂₀E and T₂₈N, R₂₀E, estab. by Sidney E. Blout, July 11, 1908 as described in Exterior Book "AX,"
 Saw an iron post 3 ft. long 3 ins. in diam., 24 ins. in the ground for Closing Corner of T₂₇N, R₂₀E. marked on brass Cap. C.C. T₂₇N, T₂₈N, R₁₉E, S₁, S₃₆. in W. half., R₂₀E. in E. half. T₂₈N, S₃₁ in N.E. and T₂₇N, S₃₆ in S.E. quadrants from which.
 A pin on pine 7 ins. in diam. bears N 62 1/2° E 85 lbs. dist. marked ^{FC} T₂₈N, R₂₀E S₃₁ B.T. and.
 A cedar 8 ins. in diam. bears S 24 1/2° E 77 lbs. dist. marked ^{FC} T₂₇N, R₂₀E S₃₆ B.T.
 I change the Cor. of T₂₇N, R₂₀E and T₂₈N, R₁₉E and T₂₈N, R₂₀E from a corner common to 4 T₂₇N, R₂₀E to a corner common to 2 T₂₇N, R₂₀E as described in Exterior Book "AX"
 Land hilly,
 Soil sandy and stony 3rd and 4th rate.
 Timber pin on pine and cedar
 September 10th 1910.

Boundaries of T₂₇N, R₂₀E

Line Designated	Course	Distance	Latitudes		Departures	
			N	S	E	W
S. South Boundary	West	467.44				467.44
E. West Boundary	North	479.38	479.38			
N. North Boundary	East	467.04			467.04	
W. East Boundary (3 rd & 4 th Quads Meridian Cords)	South	480.00		480.00		
Convergence					52	
TOTALS			479.38	480.00	467.56	467.44
				479.38		
			Error in Lat.	0.62	467.44	
						Error in Dep. 0.12

General Description

This township is very rough and broken in the interior and southern parts, rolling in the central and northern parts, with some level land in the valley along the Jetteto Wash. Prairie land is found near the north boundary. The soil along the Jetteto Wash. is also sandy.

loam, which produces good crops of Indian
Corn.

The township is poorly watered, and poorly
timbered with a scattering growth of cedar.

timber on the same portions of the township

The township should be subdivided on account of its

Grazing facilities
September 10th 1910

Van L. White

U.S. Game Warden

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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 Jan 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 North

Boundary of Tp. 27 N. R. 20 E. of the G. & S. R. Base & Meridian, Arizona.
showing the respective capacities in which they acted:

T. Y. White, Chainman.

Oscar W. Fellers, Chainman.

Ralph C. Sampson, Moundman.

~~Moundman.~~

George B. Seig, Axman.

~~Axman.~~

William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jan L. White

U.S. Transitman, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the North Boundary of Tp. 27 N. R. 20 E.

of the Gila 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~~

~~General for Commissioners of the General Land Office~~

T. Y. White, Chainman.

Oscar W. Fellers, Chainman.

Ralph C. Sampson, Moundman.

~~Moundman.~~

George B. Seig, Axman.

~~Axman.~~

William R. Carson, Flagman.

Subscribed and sworn to before me this 23rd

day of Sept., 19 10

Jan L. White
U.S. Transitman



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TRANSITMAN
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Van L. White, ^{Transitman} ~~United States Deputy Surveyor~~, do solemnly swear that, in pursuance of ^{Special Instructions} ~~a contract~~ received from ^{the Commissioner of the} ~~United States Surveyor General for~~ ^{General Land Office}, bearing date of the ^{2nd day of Oct., 1907} ~~day of~~ ^{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 ^{Commissioner} ~~United States Surveyor General~~ ^{of the} ~~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 No. 20 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 ^{Commissioner} ~~United States Surveyor General~~ ^{of the} ~~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

Lynton R. Taylor
~~U.S. Commissioner~~
at Las Cruces, 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 20 East of the
Gila and Salt River Base & Meridian, Arizona.

executed by Van L. White, U.S. Transitman
under ^{Special Instructions from the Commissioner of the General Land Office} ~~the~~ contract No. October 2, 1907 and May 15, 1908, ~~10~~, 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.~~