Standard

BOOK "O"

BOOK 2521

2521

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(1)

FIELD NOTES

OF THE SURVEY OF THE

Third Guide Meridian East
through Townships No. 26 North,
Between Ranges Nos. 12 and 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. Reclamation Service, ~~United States Deputy Surveyor~~,
Special Instructions from the Commissioner of the General Land Office
Under ~~his Contract No.~~ ....., dated Feb 2nd 1907 and May 13th, 1908

Survey commenced October 13th, 1910

Survey completed October 14th, 1910

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(1A)

BOOK 2521

NAMES AND DUTIES OF ASSISTANTS.

T. H. White	Chainman
Oscar W. Fetters	Chainman
George B. Seig	Chainman
Nelson Polacco	Chainman
Ralph C. Sampson	Moundman
William R. Carson	Flagman

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(13)

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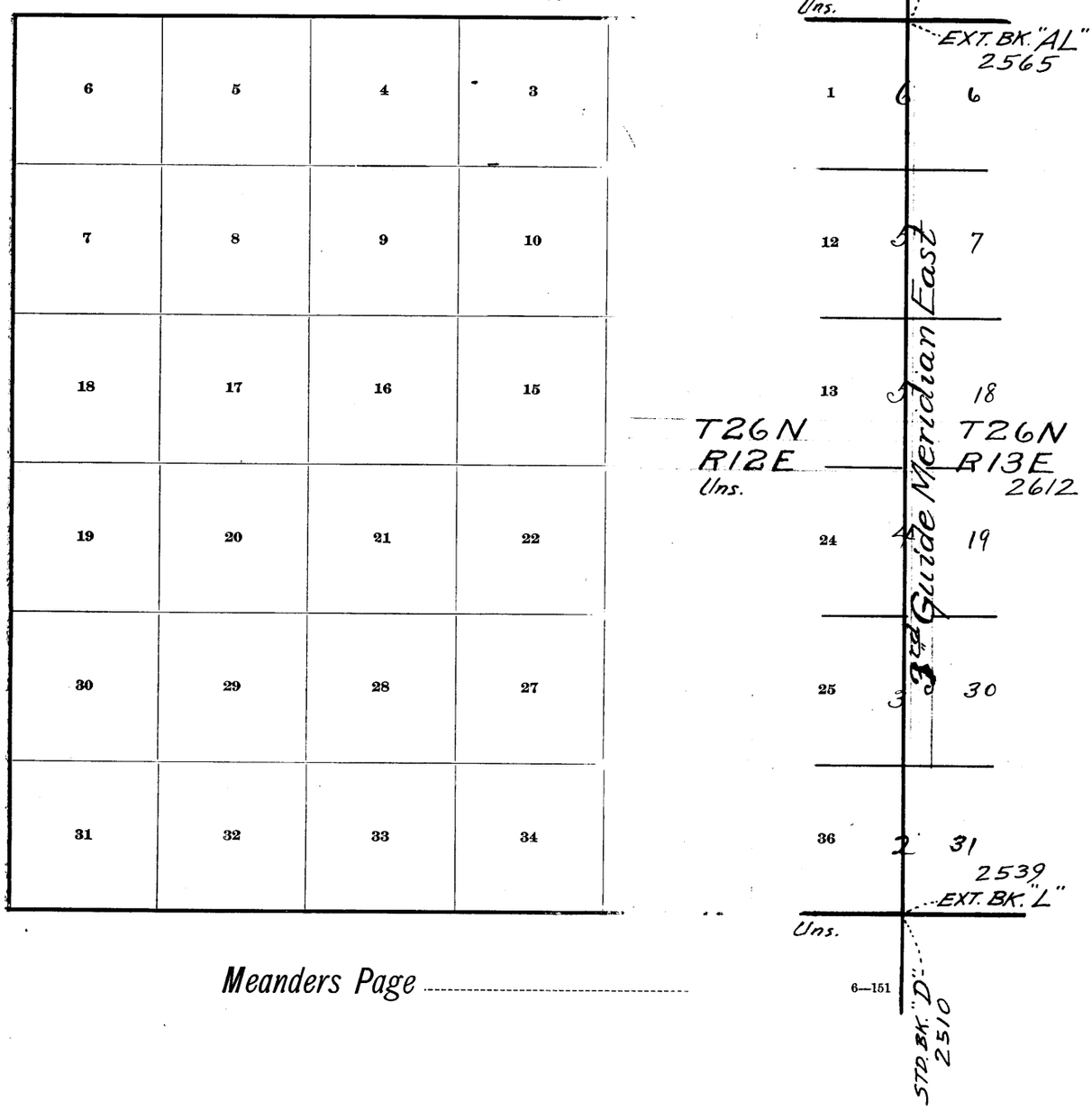
INDEX DIAGRAM.

Township ....., *Range* .....



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PRELIMINARY OATHS OF ASSISTANTS.

WE, T. Y. White, George B. Seig ~~and~~ Nelson Polacca 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 3rd Guide Meridian E. through Tps 26 N. bet. Rs 12 and 13 E. G. & S. R. Base & Mer., Arizona.

George B. Seig and T. Y. White, Chainman.

Nelson Polacca and Oscar W Fetters, Chainman.

Subscribed and sworn to before me this 13th day of Oct., 1910

SEAL

Van L. White
U.S. Transitman

I ~~We~~, Ralph C. Sampson ~~and~~ do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~ to the best of ~~my~~ skill and ability, in the survey of 3rd Guide Meridian E. through Tps 26 N bet. Rs 12 and 13 E. G. & S. R. Base & Meridian, Arizona.

Ralph C. Sampson, Moundman.

~~, Moundman.~~

Subscribed and sworn to before me this 13th day of Oct. 1910

SEAL

Van L. White
U.S. Transitman

~~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 13th day of , 19~~

SEAL

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 3rd. Guide Meridian E. through Tps 26 N bet Rs 12 and 13 E. G. & S. R. Base & Mer., Arizona.

William R Carson Flagman.

Subscribed and sworn to before me this 13th day of Oct., 1910

SEAL

Van L. White
U.S. Transitman

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Survey commenced October 13th 1910 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 lat. and decl. arcs.

At my camp which I locate near the cor. of secs. 15. 16 21 and 22. T 26 N. R 13 E., Latitude 35° 38½' N. Longitude. 110° 57½' W. At 3h 47m p.m. l.m.t. I set off 35° 38½' N. on the lat. arc. 7° 41'. S. on the decl. arc and determine a meridian with the solar and mark a point thereof by a tack driven in a stake set in the ground 5 chs. N. of my instrument. At 8h 12m p.m. l.m.t. by my watch which is correct local mean time I observe Polaris in accordance with instructions in the manual and mark the direction thus determined by a tack driven in a stake set firmly in the ground 5.00 chs N. of my instrument.

Astronomical time of observation Oct. 13, 1910		8h	12m
Reduction to October Oct. 12th		32	12.
Astron time, U.C. Polaris Oct. 1st	12h 48.6		
Reduction to 12th Part II subtract	43.2		
Astron time U.C. Polaris Oct. 12th	12 05.3 Subtract	12	05.3
Hour angle Polaris at Observation		20	06.7
Subtract from		23	56.1
Time argument for table VII		3	49 4
Azimuth of Polaris at observation		1°	11½' E.

October 13th 1910.

October 14th 1910 At 7h. 0m. a.m. l.m.t. I lay off the azimuth of Polaris 1° 11½' to the west and mark the meridian thus determined by a tack driven in the stake set last evening on which the meridian falls. 0.3 ins E. of of the point determined by the solar observation

At 7h 18m a.m. l.m.t. I set off 35° 38½' N. on the lat. arc. 7° 54' S. on the decl. arc and determine a meridian with the solar and mark a point

The Third Guide Meridian East through Pts 26 N., Rgs 12 and 13 East.

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thereof by a tack driven in the stake already
Sch. 5.0 chs. N. of my instrument, This point
falls 0.2 ins East of the meridian established by
the Polaris observation.
The solar apparatus by p.m. and a.m. observations
defines positions for meridians respectively about
0'15" West and 0'10" east of the meridian determined
by the Polaris observation therefore I conclude that
the adjustments of the instrument are satisfactory
I begin at the cor. of Pts 25 and 26 N. Rs 12 and 13 E,
estop. by Sidney E. Blout, Feb 8, 1910
which is an iron post 3 ins in diam. 12 ins. above
ground, firmly set. marked on brass cap T26N.
on N. half, T 25 N. on S. half, R12E S36 in N.W.
R13E S31 in N.E. R13E S6 in S.E. R12E. S1 in S.W.
quadrant. with pits 24x24x12 ins. on line. N.E.
and W. 4 ft. and S of post. 8 ft. dist. with a mound
of earth 5 ft. base 2½ ft. high S. of cor. Latitude
35°35'48" N. Longitude 111°00'32" W.
At. 9h 00m a.m. Sch & Set off 35°36' N. on the lat. arc
7°58' S. on the decl. arc and determined a meridian
with the solar. thence I run.
North bet. secs. 31 and 36.
Over rolling sandy loam through sage and greasewood
brush undergrowth and bunch grass
30.96 Dry sand wash 100 lks. wide 4 ft. deep course S25°W.
Difference bet. measurements of 4000 chs. by
two sets of chainmen is 04 lks. position of
middle point.
By 1st Set. 39.98 chs.
By 2nd Set. 40.02 chs. the mean of which is
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 S36 on W. half and S31 on E. half.
Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dist.
did raise a mound of earth 3½ ft. base 1½ ft.
high W of cor.
Difference between measurements of 80.00 chs.
by two sets of Chainmen is 04 lks, position
of middle point.
By 1st Set. 80.02 chs.
By 2nd Set. 79.98 chs. the mean of which is
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins.

in the ground for cor. of secs. 25, 30, 31 and 36 marked on brass cap T 26 N. in N. half, R 12 E. S. 25 in N.W., R 13 E S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrant.
Dig pits 18 x 18 x 12 ins. in each sec. 5½ 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

North bet. secs. 25 and 30.
Ascend S. slope over rolling sandy land through sage and greasewood brush undergrowth and bunch grass
3.00 Nose of ridge bears N 30° E. and S 30° W. dist. gentle N.W. slope
Difference bet. measurements of 40.00 chs. by two sets of chainmen is 02 lks. position of middle point.
By 1st Set. 40.01 chs.
By 2nd Set 39.99 chs. the mean of which is
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 25 on W. half and S 30 on E. half
Dig pits 18 x 18 x 12 ins. N and S. of post. 3 ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft high. W of cor.
70.00 Nose of descends in depression bears N.E. and S.W. drains to the S.W. asc. gradually.
Difference bet. measurements of 80.00 chs. by two sets of chainmen is 04 lks. position of middle point
By 1st Set. 80.02 chs.
By 2nd Set. 79.98 chs. the mean of which is
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked on brass cap T 26 N. in N. half R 12 E. S 24 in N.W. R 13 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrant.
Dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and

The Third Guide Meridian East through Nps 26 N, bet. Rs 12 and 13 E each.
Chains

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raise a mound of earth 4 ft base. 2 ft. high W. of Cor.
Land rolling.
Soil sandy 3rd rate.
No timber

North bet. secs. 19 and 24
Ascend S.E. slope over Sandy land through sage and greasewood brush undergrowth and bunch grass
18.90 Brow of perpendicular bluff 40 ft. high, bears E and W. ascend
20.00 Top of bluff. thence over rolling sandy land
38.00 Begin descent over rolling N.E. slope
Difference between measurements of 40.00 chs. by two sets of chainmen is .06 lks., position of middle point
By 1st set. 39.97 chs.
By 2nd set 40.03 chs. the mean of which is.
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 24 on W. half and S 19 on E. half.
Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist. and raise a mound of earth 3½ ft. base. 1½ ft. high W. of cor.
NOTE At this cor. I set 7° 01' S. on the decl. arc and at noon observed the sun on the meridian and obtain a reading of 35° 38' N. on the lat. arc.
Difference between measurements of 80.00 chs. by two sets of chainmen is 0 4 lks., position of middle point.
By 1st set. 80.02 chs.
By 2nd set 79.98 chs. the mean of which is
80.00 Set an iron post 3 ft. long 3 ins. in diam 24 ins. in the ground for cor. of Secs. 13. 18. 19 and 24 marked on brass Cap. T 26 N. in N. half, R 12 E. S 13 in NW. R 13 E. S 18 in NE & S 19 in S.E. and S 24 in S.W. quadrants.
Dig pits 18 x 18 x 12 ins in each sec 5½ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land rolling and broken.
Soil sandy and stony 3rd rate
No timber

North brh. secs. 13 and 18.
Descend N.E. slope over hilly sandy land through sage and greasewood brush undergrowth and bunch grass.

4.80 Dry ravine 10 lks. wide 16 ft. below Cor. course N.E. asc.

7.50 Ridge of ridge bears N.E. and S.W. desc

15.30 Dry ravine course East asc.

28.15 Ridge of ridge bears E. and W. extends 30 lks S of line desc.

32.05 Dry ravine 10 lks. wide course East asc

39.00 Ridge of sand ridge bears E. and W. desc.

Difference between measurements of 40.00 chs. by two sets of chainmen is .04 lks. position of middle point

By 1st Set 39.98 chs.

By 2nd Set 40.02 chs. the mean of which is

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 13 on W. half and S 18 on E. half.

Raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of Cor. Pits impracticable

79.00 Dry ravine 50 lks. wide 3 ft. deep course S 45° E. asc

Difference between measurements of 80.00 chs. by two sets of chainmen is 06 lks. position of middle point

By 1st Set 79.97 chs.

By 2nd Set 80.03 chs. the mean of which is

80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for Cor. of secs. 7, 12, 13, and 18. marked on brass cap T 26 N. in N. half R 12 E S 12 in N.W. R 13 E S 7 in N.E. S 18 in S.E. and S 13 in S.W. quadrants.

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 hilly.
Soil sandy 3rd rate.
No timber

North brh. secs. 7 and 12.
Ascend S. slope over rolling sandy land through

The Third Guide Meridian East through Tps 26 N., Rgs 12 and 13 East.

Chains

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sage and greasewood brush undergrowth and bunch grass.

36.00 Pof of sandridge bears E and W. descend gently over N. slope.

Difference between measurements of 40.00 chs. by two sets of chainmen is 02 lks. position of middle point.

By 1st Set. 40.01 chs.

By 2nd Set 39.99 chs. the mean of which is

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 12 on W. half and S 7 on E. half.

Dig pits 18 x 18 x 12 ins. N and S. of post 3 ft. dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

40.86 Dry ravine 10 lks. wide course S.W. asc. gradually.

Difference between measurements of 80.00 chs. by two sets of chainmen is 04 lks. position of middle point.

By 1st Set. 39.98 chs.

By 2nd Set. 40.02 chs., the mean of which is

80.00 Set 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 26 N. in N. half, R 12 E 1 in N.W. R 13 E 36 in N.E. 31 in S.E. and S 12 in S.W. quadrants.

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

North bet. secs. 1 and 6.

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

Difference between measurements of 40.00 chs. by two sets of chainmen is 06 lks., position of middle point.

By 1st Set. 40.03 chs.

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By 2nd Set. 39.97 Chs. the mean of which is
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 1 on W. half and S 6 on E. half.
Raise a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor. Pits impracticable
42.00 Top of sand ridge bears N.E. and S.W., Land rolling land bears N.E. and S.W. Enter stony hilly land bears N.E. and S.W. desc. N.W. slope of ridge.
51.78 Dry ravine course West. asc.
60.12 Top of rocky ridge bears E and W., extends W. of limit 2.00 Chs. dist. desc.
78.00 Dry ravine 20 lks. wide course west. asc.
Difference between measurements of 80.00 chs by two sets of chainmen is 10 lks., position of middle point.
By 1st Set. 80.05 Chs.
By 2nd Set 79.95 Chs. the mean of which is
80.00 Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of Tps. 26 and 27 N. Rs 12 and 13 E., marked on brass cap. T 27 N. in N. half and T 26 N. in S. half. R 12 E. S 36 in N.W. R 13 E S 31 in N.E., R 13 E S 6 in S.E. and R 12 E S 1 in S.W. quadrant.
Raise a mound of stone 2 ft. base, 1 1/2 ft. high S. of cor. Pits impracticable
Land rolling and hilly.
Soil sandy and stony 3rd and 4th rate.
No timber

October 14th 1910

General Description

Townships 26 N., Ranges 12 and 13 East are generally rolling sandy mesa lands, producing an abundant growth of bunch grass, and there is some good land along the De Nebris Wash in township 26 North, Range 13 East.

October 14th 1910

Jos L. White
U.S. Mineralman

BOOK 2521

FINAL OATHS OF ~~DEPUTY SURVEYOR~~ U.S. TRANSITMAN 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 3rd Guide Meridian E. through Tps 26 N bet. Rs 12 and 13 E. G. & S. R. Base & Mer., Arizona. showing the respective capacities in which they acted:

George B Seig and T. Y. White, Chainman.
Nelson Polacca and Oscar W. Fetters, Chainman.
Ralph C. Sampson, Moundman.
~~, Moundman.~~
~~, 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 3rd Guide Meridian E. through Tps 26 N. bet. Rs 12 and 13 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, and the corner monuments established, according to the instructions furnished by the ~~United States Surveyor General for~~ Commissioner of the General Land Office.

George B Seig and T. Y. White, Chainman.
Nelson Polacca and Oscar W Fetters, Chainman.
Ralph C Sampson, Moundman.
~~, Moundman.~~
~~, Axman.~~
~~, Axman.~~
William R Carson, Flagman.

Subscribed and sworn to before me this 14th day of Oct, 1910

SEAL

Van L. White
U.S. Transitman.

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FINAL OATH OF UNITED STATES ~~DEPUTY SURVEYOR.~~ TRANSITMAN

I, Van L. White, United States ~~Deputy Surveyor,~~ Transitman, do solemnly swear that, in pursuance of ~~a contract~~ Special Instruction 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 ~~United States Surveyor~~ Commissioner of the ~~General for~~ GENERAL Land Office, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Third Guide Meridian East through Tps 26 North between Ranges No. 12 and 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 for~~ 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

Lyelton R. Naylor,
U.S. Commissioner
at Las Cruces, N.M.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona APR 25, 1914

The foregoing field notes of the survey of the

3rd Guide Meridian East thru
Tps. 26 North, between
Ranges 12 and 13 East of the
Gila and Salt River Base and Meridian, Arizona.

executed by Van L. White, U.S. Transitman under ~~this contract No~~ SPECIAL INSTRUCTIONS FROM THE COMMISSIONER OF THE GENERAL LAND OFFICE, dated OCTOBER 2, 1907 and MAY 15, 1908, ~~to~~, 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. 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.~~

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