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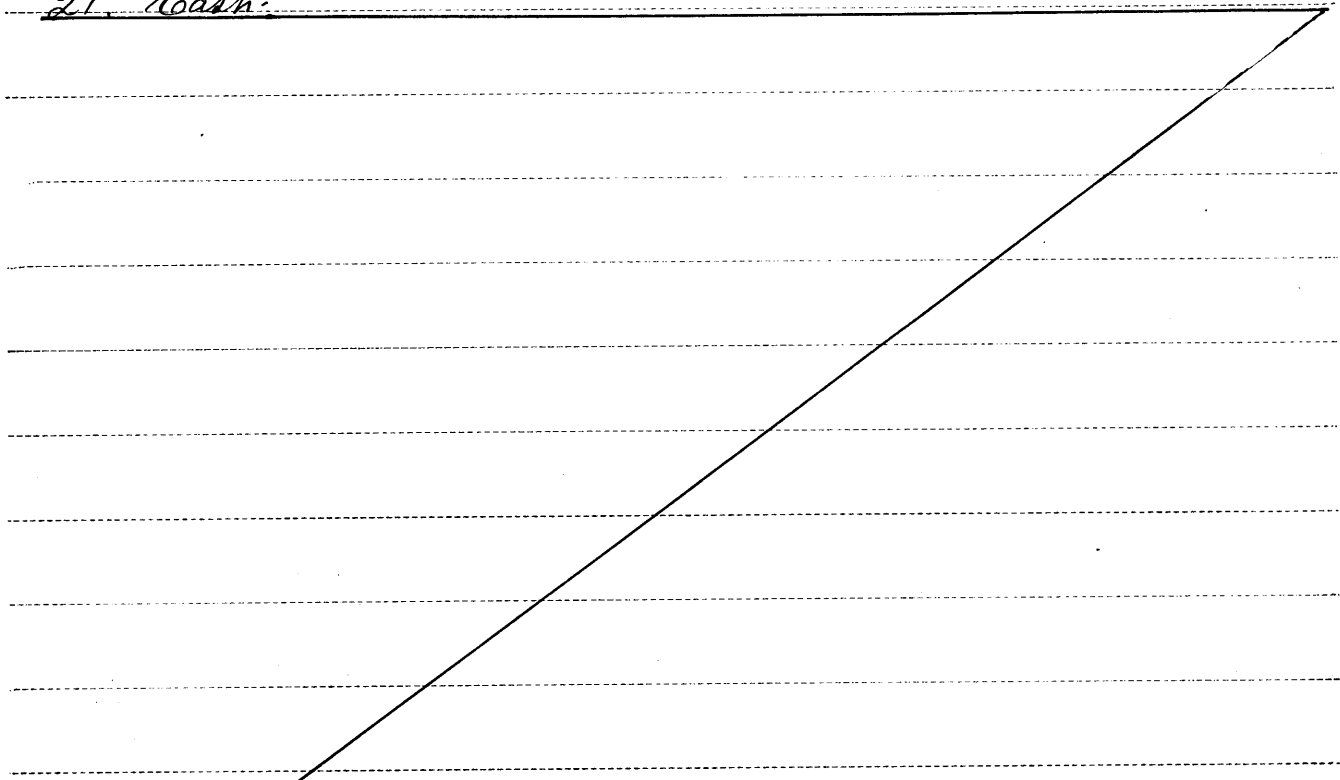
Standard
BOOK "J"

BOOK 2516

FIELD NOTES

OF THE SURVEY OF THE

Fifth Guide Meridian East. through Township
No. 25. North, between Ranges No. 20 and
21 East.



of the Gila and Salt River Basins and Meridian,

in the Territory of Arizona

**EXECUTED
AS SURVEYED BY**

Sidney E. Plough:

Examiner of Surveys
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 May 4th

1910 ~~1900~~

Survey completed May 6th

1910 ~~1900~~

NAMES AND DUTIES OF ASSISTANTS.

Van L. White Compassman

Fred L. Warner Chairman

D. V. White Chairman

Chas. L. Shumway Chairman

Ralph Sampson Woundman

Bertram C. Broom Assman

William P. Carson Flagman

1B

BOOK 2516

INDEX DIAGRAM.

Township 2519, Range

		2531	2530		
		1	6	6	
		12	6	7	
		13	5	18	
T25N					T25N
R20E					R20E
		24	4	19	
		15	3	30	
		36	2	31	
		2514		2515	

5TH GUIDE MERIDIAN EAST.

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

Charles A. Dutton

WE, *Van L. White, Fred L. Warner, P. V. White and Chas. 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 the 5th Guide Meridian E. through Twp. 25 North, Sec. R's 20 and 21 E. of the G. & S. R. Base & Meridian, Arizona.

Van L. White and Fred L. Warner Chainmen.
Chas. L. Shumway, P. V. White and Chainmen.

Subscribed and sworn to before me this 3rd day of May, 1910, 190

Charles A. Dutton



Sidney E. Blount
U.S. Examiner of Surveys

I, *Ralph C. Sampson*

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~~ to the best of ~~my~~ skill and ability, in the survey of the 5th Guide Meridian E. through Twp. 25 North, Sec. R's 20 and 21 E. of the G. & S. R. Base & Meridian, Arizona.

Ralph C. Sampson Moundman.

Subscribed and sworn to before me this 3rd day of May, 1910, 190



Sidney E. Blount
U.S. Examiner of Surveys

I, *Bertram C. Broome*

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~me~~ to the best of ~~my~~ skill and ability, in the survey of the 5th Guide Meridian E. through Twp. 25 North, Sec. R's 20 and 21 E. of the G. & S. R. Base & Meridian, Arizona.

Bertram C. Broome Axman.

Subscribed and sworn to before me this 3rd day of May, 1910, 190



Sidney E. Blount
U.S. Examiner of Surveys

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 the 5th Guide Meridian E. through Twp. 25 North, Sec. R's 20 and 21 E. of the G. & S. R. Base & Meridian, Arizona.

William R. Carson Flagman.

Subscribed and sworn to before me this 3rd day of May, 1910, 190



Sidney E. Blount
U.S. Examiner of Surveys

5th Guide Meridian East through Twp. 25 N., Sec. R. 20 and 21 E. Chains

BOOK 2516

Jurvy commenced May 4th 1910 and executed with a W. and L. E. Burley 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 read to 0' 30" of arc.

See annex the adjustments of the transit and correct 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. hours with a meridian established by observations on Polaris & proceed as follows:

Begin at the ^{old} Standard Cor. of Twp. 25 N., R. 20 and 21 E., which is situated in the edge of a sand wash, and for which reason I destroyed same on June 5 1910 and set a witness corner to same 2.00 chs N 89° 51' W as described in Standard Book "H".
Latitude 35° 30' 35" N.
Longitude 110° 09' 26" W

At this cor. set off 35° 30 1/2' N. on the lat. arc 15° 58' N. on the decl. arc and at 5^h 00^m p.m. ^{l.m.t.} determine a meridian with the solar and mark a point there of, by a tack driven in a stake set firmly in the ground 5 chs. north of the cor.

At 7^h 15^m p.m. l.m.t. by my watch which is correct. local mean time observe Polaris, in accordance with the instructions in the Manual and mark the direction thus determined by a tack driven in a stake set in the ground 5.00 chs N. of my station.

Astron local mean time of Obs. May 4 th 1910	7 ^h 15 ^m
Equivalent to time of May 3 rd	31 15
Astron time U.C. Polaris May 1 st 1910	22 ^h 48 ^m
Reduction to May 3 rd Subtract	7.9
Astron time U.C. Polaris May 3 rd	22 40.1 Subtract 22 40
Hour angle and time arguments for table VII	8 35
Azimuth of Polaris at Obs.	1° 05' W.

May 4th 1910.

May 5th 1910, At 7^h 00^m a.m. ^{l.m.t.} lay off the azimuth of Polaris 1° 05' to the east and mark the meridian thus determined by a tack driven in the stake already set 5.00 chs. N. of the cor. on which the meridian falls 8.5 ins. east of the point determined by the solar.

At 7^h 15^m a.m. ^{l.m.t.} set off 35° 30 1/2' N. on the lat. arc 16° 07 1/2' N. on the decl. arc and determine a meridian with the solar and mark a point there of by a tack driven in

BOOK 2516

the stake already set 500 chs N. of my instrument, this point falls 0.6 ins east of the meridian established by the Polarix observation.

The solar apparatus by p.m. and a.m. observations defined positions for meridians respectively about 0' 26" West and 0' 31" East of the meridian established by the Polarix observations therefore I conclude that the instrument is in satisfactory adjustment.

From the ^{old} Standard Cor. described in Std. Bk. "H" North Ch. Recs. 31 and 36.

Ascend steep S.E. slope over mountainous land through scattering sage and greasewood bush undergrowth and bunch grass

15.50 Enter scattering cedar timber bears N. 40° E and S 40° W.

35.00 Top of stony divide bears N 60° W. and S 60° E., descend steep N.E. slope.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lbs. Position of middle point.

By 1st set 40.02 chs.

By 2nd set 39.98 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 $\frac{1}{4}$ sec. Cor. marked on bears Cop $\frac{1}{4}$ S 36° W. W. half and S 31° W. E. half., from which

A Cedar 12 ins. in diam. bears S 18 $\frac{3}{4}$ ° E 48 lbs. dish marked $\frac{1}{4}$ S 31 B.T.

A Cedar 30 ins. in diam. bears S 10 $\frac{1}{2}$ ° W 78 lbs. dish. marked $\frac{1}{4}$ S 36 B.T.

69.00 Leave timber bears N.W. and S.E.

Difference between measurements of 80.00 chs. by two sets of chainmen is 6 lbs. position of middle point.

By 1st set 80.03 chs.

By 2nd set 79.97 chs. the mean of which is

80.00 Set an iron post 3 ft. long, 3 in. in diam 24 ins. in the ground. for Cor. of recs. 25, 30, 31 and 36. marked on bears Cop T 25 N. in N. half. T 20 E S 25 in N.W. T 21 E. S 30 in N.E. S 31 in S.E. and S 36 in S.W. quadrants.

Dig pits 18 x 18 x 12 ins. in each. Rec. 5 $\frac{1}{2}$ ft. dish. and raise a mound of earth 4 ft. base, 2 ft. high. W. of Cor. Land mountainous.

Soil sandy and stony 3rd and 4th rate

Timber Cedar

Mountainous land 80.00 chs.

North Ch. sec 25 and 30

Descend N.E. slope over mountainous land through scattering sage and greasewood brush undergrowth and bunch grass.

22,66 Road from Holbrook Arizona to Keams Canyon Ariz bears N.W. and S.E.

23,40 Enter scattering cedar timber bears E and W. Difference between measurements of 40,00 Chs. by two sets of chainmen is 2 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 3ft. long 1 in. in diam. 26 ins in the ground for 1/4 sec. cor. marked on bears cap 1/4 S 25 W W half and S 30 W E half, from which.

A pine or fir 12 ins. in diam bears S 42° E 77 lks. dist marked 1/4 S 30 B.T.

A Cedar 14 ins. in diam. bears N 56 3/4° W 67 lks. dist. marked 1/4 S 25 B.T.

64,00 Dry sand wash 20 lks. wide, 2 ft. deep course S, E ascend round rock peak.

79,40 Top of rock peak. 50 ft. above tunnel. desc. N. slope of peak. Difference between measurements of 80,00 Chs. by two sets of chainmen is 6 lks. position of middle point

By 1st set 80,03 Chs.

By 2nd set 79,97 Chs. the mean of which is

80,00 Set an iron post 3ft. long 8 ins. in diam 24 ins. in the ground for cor of sec. 19, 24, 25 and 30 marked on bears Cap T 25 N. in N. half. T 20 E S 24 in N.W., T 21 E S 19 in N.E. S 30 in S.E. and S 25 in S.W. quadrants, from which.

A Cedar 14 ins. in diam. bears N 68° E 143 lks. dist. marked T 25 N. R 21 E S 19 B.T.

A Cedar 14 ins. in diam bears S 77° E 156 lks. dist. marked T 25 N. R 21 E S 30 B.T.

A Cedar 6 ins. in diam. bears S 42 3/4° W 31 lks. dist. marked T 25 N. R 20 E S 25 B.T. and

A Cedar 4 ins. in diam bears N 79 3/4° W 80 lks. dist. marked T 25 N. R 20 E, S 24 B.T.

Land mountainous.

Soil sandy and stony 3rd and 4th rate.

Number Cedar

Mountainous land 80,00 Chs.

At this cor. Det. off. 16° 10 1/2' N. on the decl. arc and

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at noon observe the sun on the meridian and obtain on the lat. arc, a reading of $35^{\circ} 32\frac{1}{2}'$ N.

North Ch. secs 19 and 24.

Descend steep N. slope over stony mountainous land through scattering cedar timber and sage brush undergrowth

10.00 Foot of descent in depression bears N.E. and S.W. around S.E. slope

37.00 Top of high divide bears E and W. desc. N. slope
Difference between measurements of 40.00 Chs by two sets of chainmen is 4 lks. position of middle point.
By 1st set. 40.02 Chs.

By 2nd set 39.98 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 $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 24 on W. half and S 19 on E half from which.

A cedar 7 ins. in diam bears S 78° E 81 lks. dist. marked $\frac{1}{4}$ S 19 B.T.

A cedar 5 ins. in diam. bears S 31 $\frac{1}{4}$ ° W 123 lks. dist marked $\frac{1}{4}$ S 24 B.T.

Difference between measurements of 80.00 Chs by two sets of chainmen is 02 lks. position of middle point.

By 1st set. 80.01 Chs.

By 2nd set 79.99 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 25 N. in N. half. T 20 E S 13 in N.W., T 21 E S 18 in N.E. S 19 in S.E. and S 24 in S.W. quadrants, from which.

A cedar 12 ins. in diam. bears N 19 $\frac{1}{2}$ ° E 154 lks. dist, marked T 25 N, T 21 E S 18 B.T.

A cedar 8 ins. in diam. bears S 88 $\frac{3}{4}$ ° W 409 lks. dist, marked T 25 N, T 20 E S 24 B.T. and

A cedar 10 ins. in diam bears N 8 $\frac{1}{4}$ ° W 254 lks. dist marked T 25 N, T 20 E S 13 B.T. No other trees available!

Dig pit 36 x 36 x 12 ins S.E. of post. 5 $\frac{1}{2}$ ft. deep and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
Land mountainous.

Soil sandy and stony 3rd and 4th rate.

Timber cedar

mountainous land 80.00 chs

North Sec. 13 and 18.

Descend N. slope over mountainous land through scattering cedar timber and sage bush undergrowth

3.00 Dry ravine 20 lks wide course NW.

5.00 The same ravine N.E.

Difference between measurements of 40.00 chs. by two sets of chainment is 4 lks. position of middle point

By 1st set 39.98 chs.

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

40.00 The point for the $\frac{1}{4}$ sec. cor. falls in the bottom of dry ravine course N.E. where natural causes would insure the destruction of the cor. therefore I continue my line and ab.

40.50 Set an iron post 3 ft. long 1 in. in diam. 26 ins. in the ground for witness cor. to the $\frac{1}{4}$ sec. cor. marked.

on base of T25 N. R20 E S13 on W. half. T25 N. R21 E S18 on E half. and W.C. $\frac{1}{4}$ in S. half. from which.

A pinion pine 13 ins. in diam. bears S68 $\frac{3}{4}$ ° E 112 lks. dist. marked W.C. $\frac{1}{4}$ S18 B.T.

A cedar 16 ins. in diam. bears S49° W. 84 lks. dist. marked W.C. $\frac{1}{4}$ S13 B.T.

Ascend steep S.E. slope.

43.50 Top of sand stone ledge 10 ft. high bears N.E. and S.W.

46.00 Top of stony spur bears N.E. and S.W. extends 200 lks N.E. of line. desc gradually over N.W. slope.

55.16 Begin abrupt descent over N. slope of mesa.

70.00 Leave timber bears N.W. and S.E.,

Difference between measurements of 80.00 chs. by two sets of chainment is 6 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 sec. 7, 12, 13 and 18, marked on base of T25 N. in N. half. R20 E S12 in N.W. R21 E S7 in N.E. S18 in S.E. and S13 in S.W. quadrants.

Dig pits 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.

Land mountainous.

Soil sandy and stony 3rd and 4th rate.

Number Cedar.

May 5th 1910.

5th Guide Meridian East. through Tps 25 N., between Rs 20 and 21 E.
Chains

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- May 6th 1410 Ch 8⁰⁰ a.m. ^{1. mt} 1st set off. $35^{\circ}34'$ N. on the lat. arc
 $16^{\circ}25'$ N. on the decl. arc. and determine a meridian with
 the solar at the cor. of secs. 7, 12, 13 and 18, ^{above described} Thence I run
 North bet. secs. 7 and 12.
- Descend N. slope of mesa over mountainous land through
 scattering sage and greasewood brush undergrowth and
 bunch grass.
- 18.40 Top of descent in depression head N.E. and S.W. drains to
 the N.E., head mountainous land bears $77^{\circ}0'$ E and $57^{\circ}0'$ W.
 Enter hilly sandy land bears $77^{\circ}0'$ E and $57^{\circ}0'$ W. acc. S.E. slope
- 38.50 Top of low sand ridges head E and W. desc.
 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 $\frac{1}{4}$ sec. cor. marked on brass cap $\frac{1}{4}$ S 12 on W
 half and S 7 on E. half, from which
 A low cedar 10 ins. in diam. bears $76^{\circ}34\frac{3}{4}'$ E 412 lks.
 dist. marked $\frac{1}{4}$ S 7 B.T. No other trees available
 Raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. W. of cor.
 Pits impracticable
 Difference between measurements of 80.00 Chs. by two
 sets of chainmen is 02 lks. position of middle point
 By 1st set 80.01 Chs.
 By 2nd set 79.99 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 25 N. in N. half. T 20 E S 1 in N.W. T 21 E S 6 in N.E.
 S 7 in S.E. and S 12 in S.W. quadrants.
 Dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. diam. and raise
 a mound of earth 4 ft. base, 2 ft. high. W. of cor.
 Land rolling and mountainous.
 Soil sandy 3rd rate.
 Timber scattering cedars near $\frac{1}{4}$ sec. cor.
 mountainous land 18.40 Chs.

North bet. secs. 1 and 6.

Descend N.E. slope over rolling sandy land through
 scattering sage and greasewood brush undergrowth

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and bunch grass

29.87

Road from Holbrook Arizona to Kean's Canyon
Ariz bears N 30° W. and S 30° E.

Difference bet. measurements of 40.00 Chs. by two sets
of Chainmen is 04 lks. position of middle point.
By 1st Set. 40.02 Chs.

By 2nd Set. 39.98 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 $\frac{1}{4}$ sec. cor. marked on brass
cap $\frac{1}{4}$ S 10 W, half and S 60 W E, half.

Dig pits 18x18x12 ins. N and S. of post, 3 ft. dia.
and raise a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
high W. of cor.

78.50

Enter scattering Cedar timber bears N 60° W and
S 60° E.

Difference bet. measurements of 80.00 Chs by two
sets of Chainmen is 06 lks. position of middle
point.

By 1st Set. 80.03 Chs.

By 2nd Set 79.97 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. 25 and 26 N.
R's 20 and 21 E. from which.

A Cedar 10 ins. in diam. bears N 20 $\frac{1}{4}$ ° E, 131 lks.
dist. marked T 26 N. R 21 E S 31 B. T.

A Cedar 4 ins. in diam. bears S 19° E, 101 lks. dist.
marked T 25 N. R 21 E S 6 B. T.

A Cedar 4 ins. in diam. bears S 68 $\frac{1}{2}$ ° W 78 lks.
dist. marked T 25 N. R 20 E S 1 B. T. and

A Cedar 8 ins. in diam. bears N 24 $\frac{1}{2}$ ° W 153 lks.
dist. marked T 26 N. R 20 E S 36 B. T.

Land rolling.

Soil sandy 3rd rate.

Timber Cedar.

May 6th 1910

- Sidney E. Blout -
U. S. Examiner of Surveys

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

LIST OF NAMES.

A list of the names of the individuals employed by Sidney E. Bloup
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 5th Guide Meridian E. through Twp 25 North Between R's 20 and 21 E. of the Gila and Salt River Base and Meridian, Arizona. showing the respective capacities in which they acted:

- Van L. White and Fred L. Warner, Chainmen.
- T. V. White, Chas. L. Shumway and Chas. A. Dutton, Chainmen.
- Ralph Sampson, Moundman.
- _____ Moundman.
- Bertram C. Brown, Axman.
- _____ Axman.
- William R. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Bloup,
Examiner of Surveys, United States Deputy Surveyor, in surveying all those parts or portions of the the 5th Guide Meridian East through Township No. 25 North between Ranges No. 20 and 21 East

_____ 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 executed and the corner monuments established, according to the instructions furnished by the United States Commissioner General for of the General Land Office

- Fred L. Warner and T. V. White, Chainmen.
- Chas. L. Shumway and Charles A. Dutton, Chainmen.
- Van L. White, Chainman
Moundman.
- Ralph C. Sampson, Moundman.
- Bertram C. Brown, Axman.
- _____ Axman.
- William R. Carson, Flagman.

Subscribed and sworn to before me this 6th
day of May, 1910, 190



Sidney E. Bloup
U.S. Examiner of Surveys

EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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
General Land Office, bearing date of the

2nd day of October and the 15th day of May, 1908, I have well, faithfully, and truly, in my own
proper person, in strict conformity with the instructions furnished by the United States Commissioner
General for of the General Land Office, the Manual of Surveying Instructions, and the laws of the
United States, surveyed those parts or portions of The 5th Guide Meridian East
through Tps 25 N., bet. Rs. 20 and 21 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
General for 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.

Subscribed by said Sidney E. Blout, and sworn to before me }
this 5th day of May, 1908 }
United States Deputy Surveyor.
Examiner of Surveys.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona. APR 25 1908

The foregoing field notes of the survey of the
5th Guide Meridian East through Tps 25 N. bet. Rs. 20 and 21 E. of the
Gila and Salt River Base and Meridian, Arizona.

executed by Sidney E. Blout, U.S. Examiner of Surveys
under Special Instructions from the Commissioner of the General Land Office, 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
Phoenix, Arizona, has been correctly copied from the original notes on file in this office.

United States Surveyor General.