

Standard
BOOK "M"

2519

FIELD NOTES BOOK 2519

OF THE SURVEY OF THE

5th Guide Meridian East through Twp. 26 and 27
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

Sydney E. Blouh, United States ^{Examiner of Surveys} ~~Deputy Surveyor~~,

Under his ~~Contract No.~~ Special Instructions from the Commissioner of the General Land Office, dated Oct. 2nd 1907 and May 15th 1908

Survey commenced July 18th, 1910

Survey completed July 25th, 1910

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BOOK 2519

NAMES AND DUTIES OF ASSISTANTS.

<i>Fred L. Warner</i>	<i>Chairman</i>
<i>F. Y. White</i>	<i>Chairman</i>
<i>Oscar W. Petters</i>	<i>Chairman</i>
<i>Charles A. Dutton</i>	<i>Chairman</i>
<i>Lorenzo J. Hatch</i>	<i>Moundman</i>
<i>Jack Nez</i>	<i>Chairman</i>
<i>William R. Carson</i>	<i>Flagman</i>

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BOOK 2519

Book No. 2519

INDEX DIAGRAM.

Township Range

2578			2564		
		Uns.			Uns.
1	7	6	1	16	6
12	6	7	12	15	7
13	4	18	13	14	18
24	3	19	24	12	19
25	2	30	25	11	30
36	1	31	36	10	31
2531		2530	2578		Uns.

T26N
2626
R20E

T26N
R21E
Uns.

T27N
2625
R20E

T27N
R21E
Uns.

5TH GUIDE MERIDIAN EAST

5TH GUIDE MERIDIAN EAST

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PRELIMINARY OATHS OF ASSISTANTS.

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BOOK 2519

WE, Fred L. Warner, Charles A. Dutton, Oscar F. Fettere and W. White
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 East through Tps. 26 and 27 N., R. 20 and 21 East.
J. J. White and Fred L. Warner, Chainman.
Oscar W. Fettere and C. A. Dutton, Chainman.

Subscribed and sworn to before me this 18th
day of July, 1910



Sidney E. Blouh
U.S. Examiner of Surveys

WE, Lorenzo J. Hatch
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 ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of 5th Guide Meridian East through Tps. 26 and 27 N., R. 20 and 21 East of the G. & S. P. Base & Meridian, Arizona.

Subscribed and sworn to before me this 18th
day of July, 1910



Lorenzo J. Hatch, Moundman.

Sidney E. Blouh
U.S. Examiner of Surveys

WE, Jack Mey
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 ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of 5th Guide Meridian East through Tps. 26 and 27 N., R. 20 and 21 East of the G. & S. P. Base & Meridian, Arizona.

Subscribed and sworn to before me this 18th
day of July, 1910



Jack Mey, Axman.

Sidney E. Blouh
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 5th Guide Meridian East through Tps. 26 and 27 N., R. 20 and 21 East of the G. & S. P. Base & Meridian, Arizona.

Subscribed and sworn to before me this 18th
day of July, 1910



William R. Carson, Flagman.

Sidney E. Blouh
U.S. Examiner of Surveys

Chain 5th Guide Meridian East through Twp 26 and 27 N. R. 20 and 21 E.

BOOK 2510

Survey commenced July 18th 1910 and executed with a Young and 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. Const. of the verniers of the latitude and declination arcs.

Examine the adjustments of the transit and find them to be 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 Twp 25 and 26 N., R. 20 and 21 E. ^{as described in Standard Book "J"} which I established May 6th 1910. Latitude 35° 35' 48" N. Longitude 110.09' W.

At 8^h 00^m a.m. set off 35° 36' N. on the lat. arc. 21° 08' N. on the decl. arc and determine a meridian with the solar, at the above mentioned corner.

Thence I run, as per instructions North Secs. 31 and 36.

Over rolling sandy land through scattering sage and greasewood brush undergrowth and bunch grass.

- 1.50 Leave rolling land. Bear E and W. Enter hilly land bear E and W. Ascend steep S. slope.
- 8.60 Top of sand ridge bear N 40° E and S 40° W. desc steeply
- 13.00 Foot of steep descent desc. gradually.
- 14.35 Dry ravine 10 lbs. wide course S.W. arc.
- 27.25 Top of sand ridge bear N.E. and S.W. desc.
- 36.00 Foot of descent in depression. bear N.E. and S.W. drains to the S.W. arc.

Difference bet. measurements of 40.00 chs. by two sets of Chainmen is 6 lbs., position of middle point.

By 1st set 40.03 Chs.
By 2nd set 39.97 Chs. the mean of which is
40.00 Set an iron post 3 ft. long in ground, 26 ins. in the ground for 7 sec. cor. marked on brass cap. N 43° 36' W. half and S 31° 0' E. half.

Dig pits 18x18x12 ins N and S. of post 3 ft. dia. and raise a mound of earth 3 1/2 ft diam. 1 1/2 ft. high W. of cor.

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60.55 Top of sand ridge 30 ft. high bears N.E. and S.W. desc. Enter scattering Cedar timber bears N.E. and S.W. Difference bet measurements of 80.00 chs. by two sets of Chainmen is 8 lks. position of middle point

By 1st set 80.04

80.00 By 2nd set 79.96 Chs. The mean of which is
Set an iron post 3 ft. long 3 ins. in diam. 24 ins. in the ground for cor. of sec. 25, 30, 31 and 36 marked on brass cap T 26 N. in N. half. R 20 E S 25 in NW. R 21 E S 30 in NE. S 31 in SE. and S 36 in the SW. quadrant, from which.

A juniper pine 8 ins. in diam. bears N 30 1/2° E 98 lks. dist marked T 26 N. R 21 E S 30 B.T.

A juniper pine 14 ins. in diam. bears S 40 1/4° E 245 lks. dist. marked T 26 N. R 21 E S 31 B.T.

A Cedar 10 ins. in diam. bears S 23 3/4° W 293 lks. dist marked T 26 N. R 20 E S 36 B.T. and

A juniper pine 15 ins. in diam. bears N 38° W 324 lks. dist marked T 26 N. R 20 E S 25 B.T.

This cor is situated at the foot of descent in a depression bears N.E. and S.W.

Land rolling and hilly.

Soil sandy 3rd rate.

Number juniper pine and cedar.

North bet. sec. 25 and 30.

Over rolling sandy land, through scattering cedar timber and bunch grass.

28.00 Dry sand wash 20 lks. wide, 5 ft. deep. Course S.W. ascend gradually over S.W. slope.

38.76 Wood road bears N.E. and S.W.

Difference bet measurements of 40.00 chs. by two sets of Chainmen is 6 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 25 on W. half and S 30 on E. half. from which;

5th Guide Meridian East through T26 N., beh. R's 20 and 21 E
Chains 3

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- A Cedar 5 ins. in diam. bears S49½°E 116 lks. dist; marked ¼ S. 30 B.T.
- A Cedar 12 ins. in diam. bears S69°W 110 lks. dist. marked ¼ S 25 B.T.
- 46.53 Wood road bears N.E. and S.W.
- 57.00 Top of sand ridge, bears N.E. and S.W. desc.
- 65.00 Road from Holbrook to. Kean's Canyon bears N35°E and S35°W.
- 69.85 Branch road bears E and W., Lean timber bears E and W.

Difference bet. measurements of 80.00 Chs. by two sets of Chainmen is 8 lks.; position of middle point.

- 80.00 By 1st Set 79.96 Chs;
- By 2nd Set 80.04 Chs, the mean of which is.
- Set an iron post. 3 ft. long, 3 ins. in diam. 24 ins. in the ground for Cor. of sec. 19, 24, 25 and 30. marked on brass Cap, T26 N. in N. half., R20E S24 in N.W., R21E. S19 in N.E. S30 in S.E. and S25 in S.W. quadrants.
- Dig pits 18x18x12 ins. in each sec. 5½ ft. deep, and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor.
- Land rolling and hilly.
- Soil sandy and stony 3rd rate.
- Timber Cedar.

NOTE: At this Cor. I set off 21° 06' N. on the decl. arc and at noon observe the sun on the meridian and obtain on the hor. arc, a reading of 35° 37' N.

- North beh. sec. 19 and 24.
- Descend N.W. slope over rolling, sandy land through scattering sage and greasewood brush undergrowth and bunch grass.
- 2.20 Dry sand wash 15 lks. wide course S.W. asc.
- 35.00 Top of sand ridge bears N50E and S50°W. desc.
- 39.25 Dry sand wash. 25 lks. wide course S60°W. asc.
- Difference bet. measurements of. 40.00 Chs by two sets of Chainmen is. 4 lks. position of middle point.

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By 1st Set. 39.98 Chs.,
 By 2nd Set. 40.02 Chs. the mean of which is
 40.00 Ch. 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.
 Dig pits 18 x 18 x 12 ins. 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.

62.00 Top of band ridge 40 ft. above $\frac{1}{4}$ sec. cor. bears
 N.E. and S.W. desc. N.W. slope.

Difference bet. measurements of 80.00 Chs. by
 two sets of chainmen is 6 lbs. position of middle
 point.

By 1st Set. 79.97 Chs.

By 2nd Set 80.03 Chs.; the mean of which is
 80.00 Ch. an iron post. 3 ft. long 3 ins. in diam, 24
 ins. in the ground for cor. of sec. 13, 18, 19
 and 24, marked on brass cap T 26 N. in N. half
 R 20 E S 13 in N.W., R 21 E S 18 in N.E., S 19 in S.E.
 and S 24 in S.W. quadrants.

Dig pits 18 x 18 x 12 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 hilly.

Soil sandy grad rate.

No timber

July 18 - 1910

July 20th 1910, ab. 7^h 30^m a.m. ^{1 m. N.} Set off. $35^{\circ} 38' N.$
 on the lat. arc $20^{\circ} 47' N.$ on the decl. arc and
 determine a meridian with the solar at the cor.
 of sec. 13, 18, 19 and 24, ^{above described} thence I run
 North bet. sec. 13 and 18.

Descend N.W. slope over rolling sand hills, through
 scattering sage and greasewood brush and
 bunch grass.

22.40 Dry ravine course S.W. ascend gradually.

23.00 Enter scattering pinion pine and cedar
 timber bears $N 40^{\circ} E$ and $S 40^{\circ} W$.

Difference bet. measurements of 40.00 Chs. by
 two sets of chainmen is 2 lbs., position of
 middle point.

5th Guide Meridian East through T₂₆ N₆, Sec. R₂₀ and 21 East.
Claim

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By 1st Sec. 39.99 Chs.;

By 2nd Sec. 40.01 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. 13^o W. half and S 18^o on E. half., from which.

A pinon pine 14 ins in diam bears S 59 $\frac{1}{2}$ ^o E 218 lks. dist. marked $\frac{1}{4}$ S 18 B.T.

A cedar 8 ins. in diam. bears N. 32^o W 324 lks. dist. marked $\frac{1}{4}$ S 13 B.T.

62.65 Top of sand ridge 40 ft. above $\frac{1}{4}$ sec. cor. bears N 36^o E and S 36^o W. desc. N.W. slope.

65.00 Dry ravine 25 ft. below top of ridge, course S.W. Clear sandy land bears N.E. and S.W., Enter clayey land. are steep S.E. slope.

74.00 Top of Clay ridge 20 ft. above ravine, bears N 30^o E and S 30^o W. desc. steeply.

Difference bet. measurements of 80.00 Chs. by two sets of chainmen is 8 lks., position of middle point.

By 1st Sec. 79.96 Chs.,

By 2nd Sec 80.04 Chs., the mean of which is.

80.00 The point for cor. of sec. 7, 12, 13 and 18. falls in the bottom of dry ravine, 15 lks. wide course S.W., where natural causes would insure the destruction of the cor., therefore I continue my line, and ab.

81.40 Set an iron post 3 ft. long, 3 ins. in diam 24 ins. in the ground. for witness cor. to the cor. of sec. 7, 12, 13 and 18. marked on brass cap. T₂₆ N₆ in N half., R₂₀ E S 12 in N.W., R₂₁ E S 7 in N.E. S 18 in S.E. and S 13 in S.W. quadrants. from which.

A pinon pine 5 ins. in diam. bears N 18 $\frac{3}{4}$ ^o E 107 lks. dist. marked W.C. T₂₆ N₆. R₂₁ E S 7 B.T.

A Cedar 10 ins. in diam. bears S 46 $\frac{1}{2}$ ^o E 112 lks. dist. marked W.C. T₂₆ N₆. R₂₁ E. S 7 B.T.

A cedar 10 ins. in diam. bears S 39 $\frac{1}{2}$ ^o W 68 lks. dist. marked W.C. T₂₆ N₆. R₂₀ E S 12 B.T. and

A pinon pine 6 ins. in diam. bears N 21^o W 73 lks. dist. marked W.C. T₂₆ N₆. R₂₀ E. S 12 B.T.

Land lilly.

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Soil sandy and clayey 2nd and 3rd rate.
Timber pinion pine and cedarFrom true point for cor. of secs. 7, 12, 13, and 18 in ravine, course SW.
I run,

North bet. secs. 7 and 12.

1.40 Around S slope through scattering cedar timber
Witness Cor. to cor. of secs. 7, 12, 13 and 18.
16.50 Top of clay ridge 40 ft. above cor. bears N.E. and
SW. desc. steeply.19.50 Dry ravine 30 ft. below top of ridge course
S 60° W. asc.22.00 Top of ridge 20 ft. above ravine bears N.E. and
SW. desc.25.85 Dry ravine 25 ft. below top of ridge course
S 60° W. asc.Difference bet. measurements of 40.00 Chs.,
by two sets of chainmen is 10 lbs., position
of middle point.By 1st Set. 39.95 Chs.By 2nd Set. 40.05 Chs. the mean of which is40.00 Chas 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 pinion pine 6 ins. in diam. bears S 73 $\frac{3}{4}$ ° E 210
lbs. dist. marked $\frac{1}{4}$ S 7 B.T.A pinion pine 8 ins. in diam. bears S 39 $\frac{3}{4}$ ° W.
15 lbs. dist. marked $\frac{1}{4}$ S 12 B.T.40.50 Top of sand ridge 5 ft. above $\frac{1}{4}$ sec. cor. bears
N 76° E and S 70° W, desc. N.W. slope.46.30 Dry ravine 15 ft. below top of ridge course S 70° W.
asc.66.00 Top of clay ridge 30 ft. above ravine, bears
N.E. and S.W. desc. N.W. slope.Difference between measurements of 80.00 Chs.
by two sets of chainmen is 12 lbs., position
of middle point.By 1st Set. 79.94 Chs.By 2nd Set. 80.06 Chs., the mean of which is80.00 Chas 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 20 E S 1 in N.W., R 21 E S 6 in N.E. S 7 in S.E. and S 12

in S.W. quadrant. from which.
 A piñon pine 12 ins. in diam. bears N 18½° E 211
 lks. dist. marked T 26 N., R 21 E., S 6 B.T.
 A piñon pine 6 ins. in diam. bears S 59¼° E 39 lks.
 dist. marked T 26 N., R 21 E., S 7 B.T.
 A Cedar 8 ins. in diam. bears S 16½° W 120 lks. dist.
 marked T 26 N., R 20 E., S 12 B.T. and
 A piñon pine 7 ins. in diam. bears N 15½° W 137
 lks. dist. marked T 26 N., R 20 E., S 1 B.T.
 Land hilly.
 Soil sandy and clayey 3rd rate.
 Timber piñon pine and cedar

NOTE At this cor. Det. off. 20° 44½' N. on the decl. arc
 and at noon observe the sun on the meridian
 the resulting latitude being 35° 40' N.

North bet. sec. 1 and 6.
 Descend N slope over hilly, sandy and clayey land
 through scattering piñon pine and cedar timber
 and sage and greasewood brush undergrowth

0.90 Dry ravine 15 lks. wide course W. asc.
 10.00 Top of clay ridge 20 ft. above ravine. bears E and
 W. desc
 22.00 Dry ravine 30 ft. wide course S 80° W. asc.
 23.75 Top of ridge bears E and W. desc
 24.50 Dry ravine 10 ft. below top of ridge course S 70° W
 asc.
 31.50 Top of clay ridge 25 ft. above ravine, bears NE
 and SW. desc.

Difference bet. measurement of 40.00 Chs. by two
 sets of chainmen is 8 lks., position of middle
 point.

By 1st set. 40.04 Chs.
 By 2nd set 39.96 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 1 on W. half and S 6 on E half, from which.
 A piñon pine 6 ins. in diam. bears S 42½° E 94 lks.
 dist. marked ¼ S 6 B.T.
 A piñon pine 4 ins. in diam. bears S 39½° W 114

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- 43.00 lks. dist. marked $\frac{1}{4}$ S 1 B.T.
Dry ravine 20 ft. below $\frac{1}{4}$ sec. cor. Course S.W.
Abc. steeply
- 56.20 Top of high Clay ridge. 30 ft. above ravine, bears
N.E. and S.W. desc. steeply.
- 79.40 Dry ravine 20 ft. wide 5 ft. deep. Course N 70° W.
Abc.

Difference between measurements of 80.00 Chs.
By two sets of chainmen is 10 lks., position of
middle points.

- 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. 2 1/2
ins. in the ground for cor. of Tps. 26 and 27
N. R's 20 and 21 E. marked on brass cap
T 27 N. in N. half. T 26 N. in S. half., R 20 E S 36
in N.W. R 21 E S 31 in N.E., R 21 E S 6 in S.E. and
R 20 E S 1 in S.W. quadrant, from which.
A cedar 12 ins. in diam. bears N 68° E 35 lks. dist.
marked T 27 N. R 21 E. S 31 B.T.
A pinion pine 6 ins. in diam. bears S 57 1/2° E 63
lks. dist., marked T 26 N. R 21 E S 6 B.T.
A pinion pine 10 ins. in diam. bears S 14 1/2° W 17 1/2
lks. dist. marked T 26 N. R 20 E S 1 B.T. and
A pinion pine 6 ins in diam. bears N 81 1/2° W 72 lks
dist., marked T 27 N. R 20 E S 36 B.T.
Land hilly.
Soil sandy and clayey 3rd rate.
Pine birch pinion pine and Cedar.

July 20th 1910

General Description.

Townships 26 N., Ranges 20 and 21 E.
are generally rolling sand hills.
producing abundant growth of different
grasses, with some good farming lands
along the sand washes which form
the drainage of these townships.

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

BOOK 2519

Survey commenced July 23rd 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 latitude and declination arcs.

Examine 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 Tps. 26 and 27 N., R. 20 and ^{here before described} 21 E. which I established July 20th 1910.

Latitude $35^{\circ}41'N$. Longitude $110^{\circ}09'W$.

At 8^h 30^m a.m. ^{l.m.t.} July 23rd 1910 I set off $35^{\circ}41'N$ on the lat. arc. $20^{\circ}12\frac{1}{2}'N$ on the decl. arc and determine a meridian with the solar at the above described cor. Thence I run

North by R. 31 and 36.

Ascend steep S.E. slope over hilly sandy land through scattering pinion pine and cedar timber and bunch grass.

4.60 Top of ridge 75 ft. above the cor. bears N. $40^{\circ}E$ and S $40^{\circ}W$. Desc. steeply over N.W. slope.

18.20 Dry ravine 50 ft. below top of ridge course S.W. above steeply.

29.00 Top of ridge 100 ft. high bears N.E. and S.W. Desc. steeply.

39.75 Dry ravine 20 lbs. wide course S.W. etc.

Difference bet. 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 in. in the ground for $\frac{1}{4}$ sec. cor; marked on brass cap. $45^{\circ}36'$ on W half and $53^{\circ}31'$ on E. half from which.

A pinion pine 6 in. in diam. bears $88^{\circ}W$, 81 lbs.

5th Guide Meridian East. through Pps 27 N., Sec. R20 and 21 East. Chains

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dish marked $\frac{1}{4}$ S 36 B.T.
 No other trees available.
 Dig pits 18x18x12 ins. N. and S. of post. 3 ft. dia. and raise a mound of earth $3\frac{1}{2}$ ft., base $\frac{1}{2}$ ft. high. W. of cov.
 44.75 Top of sand ridge 50 ft. above $\frac{1}{4}$ sec. cor. bears E and W. desc.
 52.15 Dry ravine 60 ft. below top of ridge, course S 75° W. asc. S.E. slope.
 77.75 Top of sand ridge bears N.E. and S.W. desc. Difference bet. measurements of 80.00 Chs. by two sets of Chainmen is. 12 lks., position of middle point.
 By 1st set. 80.06 Chs.
 By 2nd set 79.94 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. 15, 30 31 and 36. marked on brass cap. T 27 N. in N. half. R 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. quadrant. from which, A pinon pine 5 ins. in diam. bears N. $48\frac{1}{2}^{\circ}$ E 64 lks. dist. marked T 27 N. R 21 E. S. 30 B.T.
 A pinon pine 6 ins. in diam. bears S 58° E 126 lks. dist., marked T 27 N. R 21 E, S 31 B.T.
 A Cedar 8 ins. in diam. bears S $23\frac{1}{4}^{\circ}$ W 141 lks. dist., marked T 27 N. R 20 E S 36 B.T. and
 A pinon pine 10 ins. in diam. bears N 69° W 61 lks. dist. marked T 27 N. R 20 E. S 25 B.T.
 Land hilly,
 Soil sandy and clayey 3rd rate.
 Timber pinon pine and Cedar.

North 1/2 sec. 25 and 30.
 Descend N. slope over hilly, sandy land through pinon pine and Cedar timber and brush grass
 33.35 Dry ravine 15 lks. wide course N 60° E. asc.
 38.70 Top of sand ridge extends E. desc.
 Difference bet. measurements of 40.00 Chs. by two sets of Chainmen is. 4 lks., position of middle point.
 By 1st set. 39.98 Chs.

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By 2nd Sep. 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 $\frac{1}{4}$ sec. cor. marked on
brass cap $\frac{1}{4}$ S 25 on W. half. and S 30 on E half.
from which;

A Cedar 5 ins. in diam. bears $N 56\frac{1}{2}^{\circ} W 52$ lbs.
dist. marked $\frac{1}{4}$ S 25 B.T.

A Cedar 8 ins. in diam. bears S $87^{\circ} E 98$ lbs. dist.
marked $\frac{1}{4}$ S 30 B.T.

58.45 Dry ravine Course N.E. asc.

71.00 Top of Clay ridge bears N.E. and S.W. desc N.W.
slope.

Difference bet. measurements of 80.00 Chs. by
two sets of chain men is 8 lbs., position of
middle point.

By 1st Sep. 80.04 Chs.

By 2nd Sep. 79.96 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 sec. 19, 24, 25
and 30. marked on brass cap. T 27 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. quadrant. from which.

A Cedar 8 ins. in diam. bears $N 73\frac{1}{2}^{\circ} E 182$ lbs.
dist. marked T 27 N., T 21 E, S 19 B.T.

A Cedar 12 ins. in diam. bears S $43^{\circ} E 202$ lbs. dist.
marked T 27 N., T 21 E, S 30 B.T.

A pinion pine 6 ins. in diam. bears S $33\frac{1}{4}^{\circ} W 216$
lbs. dist. marked T 27 N., T 20 E S 25 B.T. and

A pinion pine 7 ins. in diam. bears $N 81\frac{1}{2}^{\circ} W 201$
lbs. dist., marked T 27 N., T 20 E. S 24 B.T.

Land hilly.

Soil sandy and clayey 3rd rate.

Timber pinion pine and Cedar.

NOTE Clouds obscure the sun at noon today
rendering an observation for latitude with
the solar impossible.

North bet. Sec. 19 and 24.

Descend N.W. slope over rolling. sandy and adobe
land, through scattering pinion pine and Cedar
timber and bunch grass

34.35 Wood road bears N.E. and S.W.
Difference bet. measurements of 40.00 Chs. by two
sets of Chainmen is 2 lks., position of middle
point.

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By 1st Set 39.99 Chs;
By 2nd Set 40.01 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° W. half and S 19° on E half.
from which.

A pinion fine 14 ins. in diam. bears N 51 $\frac{3}{4}$ ° E
302 lks. dist., marked $\frac{1}{4}$ S 19 B.T.

No other trees available

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

NOTE:- At 2^h 30^m p.m. ^{1. m} a rain began falling and continued
the remainder of the afternoon, preventing
further field work on this day.

July 23rd 1910

July 25th 1910 At 8^h 00 am ^{1. 20 ft} D₁₀ reb. off. 35° 43' N on
the lat. arc, 19° 47' N, on the decl. arc and
determine a meridian with the solar at the
 $\frac{1}{4}$ Sec. Cor. bet. sec. 19 and 24, ^{above described} thence run
North bet. Sec. 19 and 24. V

41.00 Foot of descent in depression bears N.E. and S.W.
drains to the N.E. ase. gently.

43.00 Level timber bears N.E. and S.W.

52.65 Top of sand ridge 20 ft. high. bears N.E. and S.W.
desc. over N.W. slope.

74.00 Old road bears East and W. leads to Indian Camp
E. of line

Difference bet. 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. Sec. 13, 18;
19 and 24, marked on brass cap. T 27 N. in
N. half, R 20 E, S 13 in N.W., R 21 E, S 18 in N.E.

BOOK 2519

S19 in S.E. and S24 in S.W. quadrants.
Dig pits 18x18x12 in. in each. sec. 5½ ft. dia.
and raise a mound of earth 4 ft. base, 2 ft.
high. W. of cor.

Land rolling.

Soil sandy and adobe 3rd rate.

Timber fir or pine and cedar

North beh. Secs. 13 and 18.

Descend N. slope over rolling sandy and adobe
land through scattering Sage and greasewood
bush undergrowth and bunch grass.

3440 Old wood road bears N80°W and S80°E.

21.95 Old wood road bears N70°W. and S70°E.

34.48 Old wood road bears N70W. and S70°E.

Difference beh. 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
in. in the ground for 1st sec. cor. marked on
brass cap to S130W W. half and S180W E half
Dig pit 18x18x12 in. N and S. of post. 3 ft. dia.
and raise a mound of earth 3½ ft. base 1½ ft.
high. W. of cor.

43.40 Wood road bears E and W.

71.00 Dry sand wash 50 lks. wide course W. asc.

75.50 Top of low sand ridge bears E and W. desc. gently.

Difference beh. measurements of 80.00 Chs. by two
sets of Chainmen is 8 lks. position of middle
point.

By 1st set. 80.04 Chs.

By 2nd set. 79.96 Chs., the mean of which is

80.00 Set an iron post. 3 ft. long, 3 in. in diam.
24 in. in the ground for Cor. of Secs. 7, 12,
13 and 18, marked on brass cap. T27 N. in
N. half. T20 E. S12 in N.W., T21 E S 7 in N.E.
S18 in S.E. and S13 in S.W. quadrants.
Dig pits 18x18x12 in. in each. sec. 5½ ft. dia.
and raise a mound of earth 4 ft. base, 2 ft.

high W. of cor.
 Land rolling
 Soil sandy and adobe. 3rd rate.
 No timber

North Ch. Secs. 7 and 12.
 Over rolling sandy and adobe land through scattering
 sage and greasewood brush undergrowth and
 bunch grass.

- 1.36 Road to Indian Hogan bears N60°E and S60°W.
- 2.45 At Indian Hogan bears E. 4.00 Chs. dist.
- 4.00 Leave undergrowth bears E and W. Enter Corn field bears East. 2.00 Chs and West. 20.00 Chs. dist.
- 9.50 Leave Corn field. bears N70°E 2.00 Chs. and S70°W. 20.00 Chs. dist. Enter greasewood brush.
- 10.30 Fertilizer Wash. 150 lbs wide 20 ft. deep course
- 15.40 Road leads to Keams Canyon Ariz bears N.E. and S.W.

Jett

Difference between measurements of 40.00 Chs. by two sets of chainmen is .02 lbs. position of middle point.

- By 1st set. 40.01 Chs.
- By 2nd set 39.99 Chs. the mean of which is.
- 40.00 Chs an iron pin 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° W W half and S 7. on E. half. from which.

A Cedar 18 ins in diam bears N. 86 $\frac{1}{2}$ ° W 311 lbs dist. marked $\frac{1}{4}$ S 12 B.T.

A Cedar 14 ins. in diam. bears N 55 $\frac{3}{4}$ ° E 220 lbs. dist. marked $\frac{1}{4}$ S 7 B.T.

- 40.50 Enter scattering Cedar and pinon pine timber bears East W.
 - 73.00 Top of sand ridge 10 ft. above $\frac{1}{4}$ sec. cor. bears N60°W and S60°E. desc.
 - 76.40 Dry ravine 25 lbs. wide course S.E. asc.
- Difference bet. measurements of 80.00 Chs. by two sets of chainmen is 10 lbs. position of

BOOK 2519

middle point

By 1st Sep. 80.05 Chs.

By 2nd Sep 79.95 Chs. the mean of which is
80.00 Set an iron post 3 ft. long 3 in. in diam
24 in. in the ground for cor. of sec. 1, 6, 7
and 12. marked on brass cap. T 27 N. in N. half.
R 20 E S 1 in NW., R 21 E S 6 in NE. S 7 in SE, and
S 12 in SW. quadrant. from which.

A Cedar 8 in. in diam. bears N 29 $\frac{3}{4}$ ° E 122 lbs
dist. marked T 27 N. R 21 E S 6 B.T.

A Cedar 14 in. in diam. bears S 19° E 326 lbs.
dist. marked T 27 N. R 21 E. S 7 B.T.

A Cedar 10 in. in diam. bears S 74° W. 160 lbs.
dist. marked T 27 N. R 20 E. S 12 B.T. and

A Cedar 6 in. in diam. bears N 70° W 115 lbs.
dist. marked T 27 N. R 20 E. S 1 B.T.

Land rolling

Soil sandy and adobe 2nd and 3rd rate.

Timber prairie pine and cedar.

NOTE: On this cor I set off 19° 44 $\frac{1}{2}$ ' N. on the decl arc
and at noon observe the sun on the meridian
and obtain on the lab. arc. a reading of 35° 45' N.

North beh. Secs. 1 and 6.

Ascend gradually S. slope over rolling and
hilly sandy land through scattering prairie
pine and Cedar timber and bunch grass.

0.71 Wood road bears N 80° E and S 80° W.

39.80 Top of ridge bears East W. desc. N. slope
Difference beh. measurements of 40.00 Chs. by
two sets of chainmen is .4 lbs., position of
middle point

By 1st Sep. 39.98 Chs.By 2nd Sep. 40.02 Chs. the mean of which is

40.00 Set an iron post 3 ft. long. 1 in. in diam
26 in. in the ground for $\frac{1}{4}$ sec. cor. marked
on brass cap. N 4 S 10 W. half and S 6 0 W E.
half. from which.

A Cedar 14 in. in diam. bears N 40° E 85 lbs.
dist. marked '4 S 6 B.T.

A cedar 8 ins. in diam. bears S49°W 50
lks. dist, marked 1/4 S 1 B.T.

40.70 Dry ravine 20 lks. wide course S.W. asc abruptly
over sand stone cliffs and ledges.

43.75 Prof of Cliff 15 ft. high. bears E and W. asc.
gradually.

Difference bet. measurements of 80.00 chs.
by two sets of chain men. is 12 lks., position
of middle point,

By 1st set. 39.94 Chs.

By 2nd set. 40.06 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. 27
and 28 N., R's 20 and 21 E. marked on
brass cap T 28 N. in N. half, T 27 N. in
S. half, R 20 E S 36 in N.W., R 21 E S 31 in
N.E. R 21 E S 6 in S.E. and R 20 E S 1 in S.W.
quadrant, from which.

A cedar 8 ins. in diam. bears N44°E 128
lks. dist, marked T 28 N. R 21 E. S 31 B.T.

A pinion pine 10 ins. in diam. bears S83½°E 108
lks. dist, marked T 27 N. R 21 E S 6 B.T.

A cedar 10 ins. in diam. bears S14½°W 130
lks. dist, marked T 27 N. R 20 E S 6 B.T. and

A pinion pine 6 ins. in diam. bears N70½°W
124 lks. dist, marked T 28 N. R 20 E S 36 B.T.

Land rolling hilly and broken.

Soil sandy and stony 3rd and 4th rate.

Timber pinion pine and cedar.

July 25th 1910

General Description

Township 27 N., Ranges 20 and 21 E. are
generally hilly lands, producing
an abundant growth of different
varieties of nutritious grasses, and there
is some good farming land along
the Jettito Wash.

Sidney E. Stout
U.S. Examiner of Surveys

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

LIST OF NAMES.

BOOK 2519

A list of the names of the individuals employed by Sidney E. Blouh.

Examiner of Surveys
~~Deputy Surveyor~~, United States

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 East through Tps. 26 and 27 No. between Rs. 20 and 21 E of the
showing the respective capacities in which they acted: G. & S. R. Base & Meridian, Arizona.

Fred L. Warner, and Charles A. Dutton, Chainmen.

Oscar W. Fetters and J. Y. White., Chainmen.

Lorenzo J. Hatch, Moundman.

Jack Mey, Axman.

William P. Carson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Sidney E. Blouh.

Examiner of Surveys
~~Deputy Surveyor~~, United States

in surveying all those parts or portions of the 5th Guide Meridian East through Tps. 26 and 27
No. between Rs. 20 and 21 East.

of the Gold and

Salubria 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} surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for of the General Land Office Van L. White. Compassman

Fred L. Warner C. A. Dutton, Chainman.

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

Lorenzo J. Hatch, Moundman.

Jack Mey, Axman.

William P. Carson, Flagman.

Subscribed and sworn to before me this 28th

day of July, 1910



Sidney E. Blouh.
U.S. Examiner of Surveys.

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BOOK 2519

EXAMINER OF SURVEYS
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.
(same applies to Standard Book "J")

I, Sidney E. Blout, ^{Examiner of Surveys} 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 ~~and~~ ^{and} the 15 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 General for~~ ^{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 5th Guide Meridian East, through Twp. 26 and 27 North, between Ranges No. 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, ^{and those in Standard Book "J"} 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~~ ^{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.
and those in Standard Book "J"

Sidney E. Blout
~~United States Deputy Surveyor~~
^{U.S. Examiner of Surveys}

Subscribed by said Sidney E. Blout, and sworn to before me }
this 3rd day of December, 1913

Frank S. Ingalls
SURVEYOR GENERAL OF ARIZONA



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona **APR 25**, 1914

The foregoing field notes of the survey of the
5th Guide Meridian East through
Townships N° 26 and N° 27 North, between
Ranges N° 20 and N° 21 East 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
~~executed by~~ 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~~