

orig.

BOOK 2072

2072

FIELD NOTES

2072

OF THE SURVEY OF THE

2072

Resurvey of East Bdy. and Retracement of N. Bdy.

Subdivision of Tp. 13 South, Range 12 East,

2072

Of the Gila and Salt River Base and Meridian,

Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

his Contract No. 145, dated April 15, 1907.

commenced July 23, 1907.

completed August 8, 1907.

6-151

2072

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BOOK 2072

NAMES AND DUTIES OF ASSISTANTS.

Leon G. Moore, Chairman,

Raymond A. Newton, Chairman,

Robert H. Rogers, Chairman,

Walter J. Percival, Chairman,

William H. Harrison, Moundman,

Benjamin H. Kerrick, Axeman,

Frank C. Culin, Flagman.

Book 2072

BOOK 2072

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Township 13 South, Range 12 East

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Preliminary Oaths of Assistants.

WE, Leon G Moore and Robert H Rogers
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 T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E. G. 1

Leon G. Moore
Raymond A. Hewton
Robert H. Rogers
} Chainmen.
} Chainman.
Walter J. Perival

Subscribed and sworn to before me this 21st
day of August 1907

M. Mauda Harrison
Notary Public in & for Pima
County, Arizona

my commission expires Jan. 11 - 1911

WE, William H Harrison 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 us, to the best of our skill and ability, in the survey of T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E. G. 1

William H Harrison, Moundman.
Moundman.

Subscribed and sworn to before me this 21st
day of August 1907

M. Mauda Harrison
Notary Public in & for Pima County
Arizona

my commission expires Jan 11 - 1911

WE, Benjamin H Kerrick and
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, to the best of our skill and ability, in the survey of T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E. G. 1

Benjamin H Kerrick, Axman.
Axman.

Subscribed and sworn to before me this 21st
day of August 1907

M. Mauda Harrison
Notary Public in & for Pima County
Arizona

my commission expires Jan 11 - 1911

I, Frank L. Culin, 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 T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E. G. 1

Frank L. Culin, Flagman.
Flagman.

Subscribed and sworn to before me this 21st
day of August 1907

M. Mauda Harrison
Notary Public in & for Pima County
Arizona

my commission expires Jan. 11 - 1911

chains

BOOK 2072

Survey commence July 24, 1907, and executed with a Young and Sons light mountain transit No. 7492. with 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 latitude and declination arcs. The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, July 15, 1907. I examine 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 determined by observations on Polaris, I proceed as follows:-

At the cor. of Tps. 13 and 14 South, Rs. 12 and 13, East, lat. $32^{\circ}14'38''$ N., longitude $111^{\circ}04'37''$ W. I set off $32^{\circ}15'$ N. on the lat. arc, $19^{\circ}59'$ N. on the decl. arc, and at 4h 30m p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 11h 23m a.m. l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instruction, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

July 25: At 6h, a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ}24'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 24, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7 h., a.m., l.m.t., I set off $32^{\circ}15'$ N. on the lat. arc, $19^{\circ}51'$ N. on the decl. arc; and mark a point on the stone already set 5.00 chs. N. of my station; this mark 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 $0^{\circ}31'$ west and $0^{\circ}10'$ east of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7 h 30 m a.m., l.m.t., is N. $13^{\circ}40'$ W.; the angle thus determined gives the mag. decl. $13^{\circ}40'$ E.

Preliminary to commencing the subdivision of this township, I run north on a blank line, on the east boundary of Sec. 36; at 40.00 chs. I find no trace of $\frac{1}{4}$ sec. cor.; at 80.00 chs., the cor. of secs. 25, 30, 31 and 36; I find no trace of sec. cor., nor, after diligent search, do I find any trace of $\frac{1}{4}$ sec. cor. at 120 chs. At 160 chs. I find the old cor. to secs. 19, 24, 25 and 30, which is a post in a mound, with pits, marked and witnessed as described by the Surveyor General, and situated 10.00 lks. west of line.

I continue my line north and find many of the original cors. obliterated, and at 5 mi. 79.40 chs., intersect E. and W. line, 95 lks. E. of cor. of Tps. 12 and 13 South, Rs. 12 and 13 east, which is a volcanic stone, marked and witnessed as described by the Surveyor General. I return to the SE. cor. of Tp. and resurvey the range line bet. Tps. 13-S., Rs. 12 and 13-East. The old cor. of Tps. 13 & 14 S. Rs. 12 and 13 east, is an old post, greatly decayed. I destroy all trace of the original cor. and reestablish it at the same point as follows:

Set a malapais stone, 24 X 18 X 6 ins., 18 ins. in ground, marked with six notches on the N. S. E.

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chains	<p>faces and raise a mound of stone, 4 ft. base, 2½ ft. high, S. of cor., from which</p> <p>A mesquite, 18 ins. diam., brs. S. 89° E., 8 lks. dist., marked T 14 S R 13 E S 6 B T.</p> <p>A palo verde, 8 ins. diam., brs. N. 54° E., 53 lks. dist., marked T 13 S R 13 E S 31 B T.</p> <p>A mesquite, 10 ins. diam., brs. S. 78° W., 205 lks. dist., marked T 14 S R 12 E S 1 B T.</p> <p>No other bearings available.</p> <p style="text-align: right;">July 25, 1907.</p> <hr/> <p>July 26, 1907. At 7 h. a.m., l.m.t., I set off 32° 15' N. on the lat. arc, and 19° 39' N. on the decl. arc, and determine a true meridian with the solar at the cor. of Tps. 13 and 14 S., Rs. 12 and 13 E., on the S. bdy. of tp.</p> <p>Thence I run,</p> <p>N. 0° 2' W., bet. secs. 31 and 36.</p> <p>Over mountainous land, covered with dense undergrowth.</p> <p>3.00 Gulch, 80 lks. wide, course NE. Ascend along east slope of hill.</p> <p>10.00 Top of ridge, extends NE. Top of hill brs. 10.00 chs. west. Descend.</p> <p>34.00 Along E. side of gulch, course N.N.E.</p> <p>40.00 No sign of the original cor. found after most diligent search.</p> <p>Point of sec. cor. falls on boulder in place, 24 X 12 X 18 ins. above ground, which I mark with a cross (x) for exact cor. point, and ½ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of boulder. Pits impracticable.</p> <p>43.00 Enter dense mesquite and palo verde undergrowth.</p> <p>47.50 Dry wash, 80 lks. wide, course E.</p> <p>60.30 Dry wash, 50 lks. wide, course E.</p> <p>77.80 Dry wash, 20 lks. wide, course E.</p> <p>80.00 After diligent search I can find no trace of old cor. Set a porphyry stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>Land, mountainous and rolling.</p> <p>Soil, rocky and stony; 2nd and 3rd rate.</p> <p>No timber; undergrowth, mesquite, palo verde.</p> <p>Mountainous land, or land covered with dense undergrowth, 80.00 chs.</p> <hr/> <p>North, 0° 2' W. bet. secs. 25 and 30.</p> <p>Over broken land.</p> <p>18.00 Gulch, 100 lks. wide, course E.</p> <p>21.90 Dry wash, 20 lks. wide; course E.</p> <p>25.00 Road, brs. NE. and SW.</p> <p>40.00 After diligent search I find no trace of old cor. Set a malpais stone, 20 X 18 X 10 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p> <p>66.00 begin descent.</p> <p>68.50 Gulch, 30 lks. wide, course E; ascend.</p> <p>71.00 Top of ridge, extends E. and W.; descend.</p> <p>74.80 Small gulch, 21 lks. wide, course E.</p> <p>79.95 Road, brs. NE. and SW.</p> <p>80.00 Find remains of old post on line. The markings being obliterated I destroy all trace of old cor. and reestablish it in same place as follows:</p> <p>Set a malpais stone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 2 notches on the S. and 4 notches on the E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.</p>
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chains	Land, mountainous. Soil, gravelly and stony; 2nd and 3rd rate. No timber; undergrowth, greasewood, palo verde, mesquite. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
40.00	North on a random line bet. secs. 19 and 24. Set temp. $\frac{1}{4}$ sec. cor.
80.00	After diligent search I fail to find any trace of old cor. of secs. 13, 18, 19 and 24. Thence I run, north on a random line bet. secs. 13 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Find original cor. on line, which is a post marked and witnessed as described by the Surveyor General. This post being greatly decayed, I re-establish cor. at original point. Set a sandstone, 24 X 10 X 6 ins., 18 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on the S. and 2 notches on the N. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
5.75	Thence I run, South on a true line, bet. secs. 13 and 18.
7.40	Dry wash, 10 lks. wide, course NE.
8.90	Same dry wash, 10 lks. wide, course NE.
10.60	Same dry wash, 10 lks. wide, course N.
28.50	Same dry wash, 10 lks. wide, course NE.
30.70	Wagon road, brs. NE. and SW.
37.85	Wagon road, brs. NE. and SW.
40.02	Gulch, 50 lks. wide, course NE. Set a malapais stone, 20 X 10 X 8 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
50.70	Top of ridge, extends NE.
64.80	Dry wash, 20 lks. wide, course ENE.
70.60	Dry wash, 20 lks. wide, course NE.
77.50	Top of ridge, extends E.
80.04	Set a sandstone, 20 X 10 X 8 ins., 15 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, mountainous. Soil, sandy and rocky; 2nd and 3rd rate. No timber; undergrowth, scattering mesquite and palo verde. Mountainous land, or land covered with dense undergrowth, 80.04 chs.
	South, on a true line, bet. secs. 19 and 24. Over mountainous land, through greasewood undergrowth,
2.40	Dry wash, 10 lks. wide, course E.
6.00	Dry wash, 20 lks. wide, course NE.; ascend.
25.00	Top of ridge, extends E. Descend, through dense palo verde and mesquite undergrowth, over broken ground.
37.70	Dry wash, 50 lks. wide, course E. Road, brs. E. and W. Ascend.
40.02	Set a malapais stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
47.00	Dry wash, 10 lks. wide, course NE.
69.30	Dry wash, 20 lks. wide, course NE.
72.00	Road, brs. NE. and SW.
80.04	The cor. of secs. 19, 24, 25 and 30, previously described. Land, broken and mountainous. Soil, sandy and stoney; 2nd and 3rd rate. No timber, undergrowth, palo verde, mesquite and greasewood.

RESURVEY OF EAST BOUNDARY OF TOWNSHIP 13 SOUTH, RANGE 12 EAST.

BOOK 2072

chains

Mountainous land, or land covered with dense undergrowth, 80.04 chs.

North, bet. secs. 7 and 12.
Over broken land, through dense undergrowth.

2.10 Dry wash, 20 lks. wide, course NE.
10.00 Road, brs. NE. and SW.
11.55 Dry wash, 20 lks. wide, course NE.
14.00 Top of ridge, extends NE. and SW.
22.30 Dry wash, 20 lks. wide, course NE.
32.80 Top of ridge, extends NE. and SW.
38.75 Main gulch, 2.00 chs., wide, course NE.

Find the original $\frac{1}{2}$ sec. cor. on line, which is a post set in a mound of stone, which I re-mark and re-establish in its original position, marking $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of post.

47.50 Dry wash, 80 lks. wide, course NE.
52.15 Road, Tucson to Silver Bell, brs. NW.

56.80 Wire fence, brs. E. and W.
57.50 Dry wash, 1.00 ch. wide, course NNE.
68.80 Brush fence, brs. NW. and SE.; enter field.

Find post in mound on line, which I remark and re-set in its original position, marking

T 13 S S 6 on NE.,
R 13 E S 7 on SE., and S 12
S 1 on NW.,

which 5 notches on the S. and 1 notch on the E. edges, from which

A mesquite, 6 ins., diam., brs. S. 45° E., 80 lks. dist., which I mark T 13 S R 13 E S 7 B T.

A mesquite, 6 ins., diam., brs. S. 58° W., 65 lks. dist., which I mark T 13 S R 12 E S 12 B T.

A mesquite, 6 ins., diam., brs. N. 32° E., 65 lks. dist., which I mark T 13 S R 13 E S 5 B T.

A mesquite, 6 ins., diam., brs. N. 45° W., 130 lks. dist., which I mark T 13 S R 12 E S 1 B T.

Land, rolling.

Soil, stony and rocky; and sandy; 1st and 2nd rate.

Timber, mesquite, undergrowth, mesquite, palo verde.

Mountainous land, covered with dense undergrowth, 79.95 chs.

North, bet. secs. 1 and 6.

Over broken ground, through greasewood and palo verde undergrowth.

Enter bed of Santa Cruz river, course NW.

Leave river bed; ascend through dense mesquite and tesota undergrowth.

14.10 South bank of Rillito Creek, course SW. and NE.

17.70 North bank of Rillito Creek, course SW. and NE.

18.80 Wire fence, brs. SW. and NE.

28.80 Old road, brs. NE. and SW.

From this point the old $\frac{1}{2}$ sec. cor., which is a decayed stake, brs. 1.00 lk. E. of line. I destroy this post, and re-establish this cor. $\frac{1}{2}$ sec. cor. point by setting a malpais stone, 18 X 10 X 6 ins., 12 ins. in the ground, marked $\frac{1}{2}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

A mesquite, 18 ins. diam., brs. S. 42° 45' W., 85 lks. dist., marked $\frac{1}{2}$ S 1 B T. Course of this $\frac{1}{2}$ mile is N. 0° 1' E.

Thence from $\frac{1}{2}$ sec. cor., I run North,

25.80 Wire fence, brs. NW. and SE.

28.11 Main track of the Southern Pacific Railroad brs. N. 42° 10' W.

30.31 Wire fence, brs. NW. and SE.

39.69 Find cor. of Tps. 12 & 13 S., R. 12 & 13 E., 95 lks. west of line, which is a volcanic stone, marked and witnessed as described by the Surveyor General.

The course and distance of this $\frac{1}{2}$ mile is N. 0° 22' W., 59.95 chs.

July 26, 1907.

For M. C. and
Melanders see p. 12
supplemental
notes hereto
attached

chains

Survey commenced July 28, 1907, and executed with a Young & Sons light mountain transit No. 7429, with 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 latitude and declination arcs.

The instrument was examined, tested on the true meridian at Phoenix, found correct, and was approved by the Surveyor General for Arizona, July 15, 1907.

I examine 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 determined by observations on Polaris, I proceed as follows:-

At the cor. of secs. 35 and 36 on the south bdy. of tp., which is a conglomerate stone, previously described, in lat. $32^{\circ} 14' 38''$ N., long. $111^{\circ} 05' 38''$ West, I set off $32^{\circ} 15'$ N. on the lat. arc, and $18^{\circ} 06'$ N. on the decl. arc, and at 4h 30m p.m., l.m.t., determine with solar a meridian and mark the point thereof, on a stone firmly set in the ground, 5.00 chs. N. of the cor. At 11h 08m p.m., I observe Polaris at eastern elongation, in accordance with the Manual of Instruction, and mark a point in the line thus determined on a peg driven in the ground, 5.00 chs. N. of my station, July 28, 1907.

July 29, 1907. At 6h a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 24'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone set last night, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h a.m., l.m.t., I set off $32^{\circ} 15'$ N. on the lat. arc, $18^{\circ} 58'$ N. on the decl. arc; and mark a point on the stone already set 5.00 chs. N. of my station; this mark 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 $0^{\circ} 21''$ and $0' 10''$ east of the meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian at 7h 30m a.m. l.m.t., is N. $13^{\circ} 40'$ W., the angle thus determined gives the mag. decl. $13^{\circ} 40'$ E.

Thence I run,
N. $0^{\circ} 1'$ W. bet. secs. 35 and 36.
Over mountainous land, ascending.
16.00 Top of high ridge, extends E. and W.; descend steep grade.
31.50 Gulch, 50 lks. wide, course NE. Begin steep ascent.
55.00 Top of ridge; extends NE. and SW. Descend.
70.00 Set a malapais stone, 20 X 15 X 15 ins., 15 ins.
in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face,
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor.

A mesquite, 6 ins. diam., brs. N. 50° E., 124 lks. dist., marked $\frac{1}{4}$ S 36 B T. ✓

No other tree available.

chains
 41.80 Gulch, 80 lks. wide, course NE. ascend.
 49.80 Top of ridge, extends E. and W.; descend.
 52.00 Gulch, 20 lks. wide, course NE.
 73.10 Main wash, 50 lks. wide, course NE.
 74.80 Dry wash, 10 lks. wide, course NE.
 80.00 Set a conglomerate stone, 20 X 10 X 6 ins., 15 ins. in the ground, for the cor. of secs. 25, 26, 35 and 36, marked with 1 notch on the S. and E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 A palo verde, 4 ins. diam., brs. N. 11° W., 110 lks. dist., marked T 13 S R 12 E S 26 B T.
 A palo verde, 4 ins. diam., brs. S. 32° E., 51 lks. dist., marked T 13 S R 12 E S 36 B T.
 A mesquite, 4 ins. diam., brs. N. 82½° E., 75 lks. dist., marked T 13 S R 12 E S 25 B T.
 A palo verde, 5 ins. diam., brs. N. 84° E., 90 lks. dist., marked T 13 S R 12 E S 25 B T.
 No other tree available.
 Land, mountainous.
 Soil, sandy; 2nd and 3rd rate.
 Timber, scattering mesquite and palo verde; undergrowth tesota and cacti.
 Mountainous land, 80.00 chs.

July 29, 1907. At noon, I set off 18° 54' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 16' N.
 N. 89° 58' E. on a random line bet. secs. 25 and 36.
 Set temp. ¼ sec. cor., ascending.
 Intersect the E. bdy. of tp. at a point 14 lks. S. of cor. of secs. 25, 30, 31 and 36. Thence I run S. 89° 52' W. bet. secs. 25 and 36.
 Over mountainous land,
 34.00 Gulch, 50 lks. wide, course NE.
 39.97 Set a conglomerate stone, 20 X 10 X 8 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 Pits impracticable.
 43.00 A palo verde, 6 ins. diam., brs. N. 61½° E., 54 lks. d. dist., marked ¼ S 25 B T. No other trees within limits.
 48.50 Point of knoll, descend.
 64.90 Gulch, 20 lks. wide, course NE.
 67.50 Main gulch, 50 lks. wide, course NE.
 79.94 The cor. of secs. 25, 26, 35 and 36.
 Land, mountainous.
 Soil, sandy; 2nd and 3rd rate.
 No timber; undergrowth, mesquite, tesota, greasewood, and cacti.
 Mountainous land, 79.94 chs.

N. 0° 1' W. bet. secs. 25 and 26.
 Over broken ground.
 8.20 Road, brs. NE. and SW.
 12.80 Gulch, 20 lks. wide, course E.
 29.20 Junction of 2 gulches, course E. and NE., thence E.
 35.75 Road, brs. E. and W.
 40.00 Set a conglomerate stone, 24 X 10 X 10 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. N. 45° E., 55 lks. dist., marked ¼ S 25 B T.
 A palo verde, 6 ins. diam., brs. N. 76° 20' W., 45 lks. dist., marked ¼ S 26 B T.
 51.85 Gulch, 30 lks. wide, course W.
 61.85 Road, brs. NE. and SW.
 72.65 Gulch, 30 lks. wide, course NE.

chains
75.00
80.00

Road, brs. E. and W.
Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
A palo verde, 4 ins. diam., brs. N. 89° W., 10 lks. dist., marked T 13 S R 12 E S 23 B T.
A palo verde, 6 ins. diam., brs. S. 19° E., 44 lks. dist., marked T 13 S R 12 E S 25 B T.

No other trees available.
Land, mountainous and broken.
Soil, 2nd and 3rd rate.
Timber; palo verde; undergrowth, ironwood, and caoti.
Mountainous or broken land, 80.00 chs.

40.00
~~79.95~~
79.60

N. 89° 52' E. on a random line bet. secs. 24 and 25.
Set temp. ¼ sec. cor.
Intersect the E. bdy. of tp. at a point ¹⁶ ~~X~~ lks. ⁵ ~~X~~ of cor. of secs.

Thence I run
~~S. 89° 55' W.~~ bet. secs. 24 and 25.
Over broken ground.

10.80
~~39.95~~
39.80

Dry wash, 50 lks. wide, course NE.
Set a granite stone, 20 X ¹⁶ X 8 ins., 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
A palo verde, 6 ins. diam., brs. S. ~~67-1/2° E.~~ ⁶⁷ ~~46~~ lks. dist., marked ¼ S 25 B T.
A palo verde, 8 ins. diam., brs. N. ~~8-1/2° E.~~ ⁸ ~~33~~ lks. dist., marked ¼ S 24 B T.

57.50
70.50
75.00
~~79.99~~
79.60

Dry wash, 10 lks. wide, course NE. Ascend.
Top of ridge, extends N. and S.
Dry wash, 50 lks. wide, course N.
The cor. of secs. 23, 24, 25 and 26.
Land, mountainous and broken.
Soil, sandy; 2nd and 3rd rate.
Timber, scattering mesquite and tesota; undergrowth, Ironwood, greasewood, and giant cacti.
Mountainous or broken land, ~~79.99~~ ^{79.60} chs.
July 29, 1907.

15.00
38.00
40.00

July 30; At 7h a.m., l.m.t., I set off 18° 44' N. on the decl. arc, and 32° 16' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 23, 24, 25 and 26.

Thence I run,
N. 0° 1' W. bet. secs. 23 and 24.
Over mountainous and broken land.
Wash, 2.00 chs. wide, course E.N.E.
Top of ridge, extends NE. and SW.

49.10
63.00
74.00
80.00

Set a granite stone, 24 X 6 X 6 ins., 18 ins. in the ground, for the ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
Old road, brs. SE. and NW.
Main gulch, 50 lks. wide, course E.N.E.
Main gulch, 80 lks. wide, course NE.
Set a granite stone, 24 X 15 X 5 ins., 18 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

BOOK 2072

chains	
	<p>A palo verde, 6 ins. diam., brs. N. $4\frac{1}{2}^{\circ}$ E., 84 lks. dist., marked T. 13 S R 12 E S 13 B T. ✓</p> <p>A palo verde, 8 ins. diam., brs. S. 14° W., 115 lks. dist., marked T 13 S R 12 E S 23 B T. ✓</p> <p>A palo verde, 8 ins. diam., brs. S. $46\frac{1}{2}^{\circ}$ E., 120 lks. dist., marked T 13 S R 12 E S 24 B T. ✓</p> <p>No other tree available.</p> <p>Land, mountainous.</p> <p>Soil, sandy and gravelly; 2nd and 3rd rate.</p> <p>Timber, none; undergrowth, palo verde, greasewood, tesota and cacti.</p> <p>Mountainous land, covered with dense undergrowth, 80.00 chs.</p>
40.00	N. $89^{\circ} 55'$ E. on a random line bet secs. 13 and 24.
79.95	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect the E. bdy. of tp. at a point 5 lks. N. of cor. of secs. 13, 18, 19 and 24.
	Thence I run
	S. $89^{\circ} 57'$ W. on a true line bet. secs. 13 and 24.
	Over rolling hills covered with dense greasewood undergrowth.
39.975	Set a conglomerate stone, 20 X 15 X 10 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
55.00	Main gulch, 120 lks. wide, course N.
66.00	Main gulch, 120 lks. wide, course N.
79.95	The cor. of secs. 13, 14, 23 and 24.
	Land, broken; rolling hills.
	Soil, sandy and gravelly; 3rd rate.
	No timber; undergrowth, greasewood and palo verde.
	Mountainous land, covered with dense undergrowth, 79.95 chs.

	July 30; At noon, I set off $18^{\circ} 40'$ N. on the decl. arc and observe the sun on the meridian; the resulting lat. is $32^{\circ} 17'$ N. ✓
	N. $0^{\circ} 1'$ W. bet. secs. 13 and 14.
	Over rolling and broken land.
8.70	Main gulch, 80 lks. wide, course NE.
40.00	Set a granite stone, 20 X 15 X 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
41.00	Dry wash, 20 lks. wide, course E.
67.00	Dry wash, 20 lks. wide, course NE.
80.00	Set a conglomerate stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on the S. and 1 notch on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	Land, rolling and broken.
	Soil, sandy, 2nd and 3rd rate.
	No timber; undergrowth, palo verde, mesquite, greasewood, tesota and giant cacti.
	Broken land, 80.00 chs.

40'00	N. $89^{\circ} 57'$ E. on a random line bet. secs. 12 and 13.
86.60	Set temp. $\frac{1}{4}$ sec. cor.
111.00	Intersect the E. bdy. of tp. at a point 7 lks. N. of cor. of secs. 7, 12, 13 and 18.
151.00	Thence I run,
	West, on a true line bet. secs. 12 and 13.
	Over mountainous and broken land.
3.60	Dry wash, 180 lks. wide, course NE.
14.40	Road, brs. NE. and SW.
18.00	Top of ridge, extends NE.

chains	
20.45	Dry wash, 50 lks. wide, course NE.
29.00	Dry wash, 20 lks. wide, course NE.
40.00	Set a malapais stone, 24 X 18 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.65	Dry wash, 10 lks. wide, course NE.
47.80	Main gulch, 2.00 chs. wide, course NE.
54.80	Dry wash, 10 lks. wide, course NE.
57.50	Top of ridge, extends NE. and SW.
65.00	Dry wash, 30 lks. wide, course NE.
80.00	The cor. of secs. 11, 12, 13 and 14. Land, broken and hilly. Soil, sandy and gravelly; 2nd and 3rd rate. Timber, scattering mesquite and tesota; undergrowth, greasewood, tesota, Land, mountainous or covered with dense undergrowth, 80.00 chs.
	July 30, 1907.

	July 31, 1907. At 7h a.m., l.m.t., I set off 18° 30' N. on the decl. arc and 32° 18' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 11, 12, 13 and 14. Thence I run, N. 0° 1' W. bet. secs. 11 and 12. Over broken country covered with dense undergrowth.
3.00	Dry wash, 80 lks. wide, course E.
6.00	Old road, brs. NE. and SW.
18.00	Old road on top of ridge, brs. SE. and NW
40.00	Set a limestone, 20 X 8 X 6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. A palo verde, 6 ins. diam., brs. S. 53° 30' W., 18 lks. dist., marked $\frac{1}{4}$ S 11 B T. A mesquite, 4 ins. diam., brs. S. 73° 45' E., 168 lks. dist., marked $\frac{1}{4}$ S 12 B T.
51.00	Drain, 10 lks. wide, course E.
64.00	Drain, 10 lks. wide, course NE.
69.00	Old road, brs. NE. and SW.
80.00	Set a porphyry stone, 24 X 6 X 6 ins., 18 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 1 notch on the E. and 5 notches on the S. edge, from which a mound of stone, A palo verde, 8 ins. diam., brs. N. 9° 15' E., 90 lks. dist., marked T 13 S R 12 E S 1 B T. A palo verde, 8 ins. diam., brs. S. 70° W., 139 lks. dist., marked T 13 S R 12 E S 11 B T. A palo verde, 8 ins. diam., brs. N. 26° W., 154 lks. dist., marked T 13 S R 12 E S 2 B T. No other tree available. Land, broken. Soil, sandy and gravelly; 2nd and 3rd rate. Timber, palo verde and mesquite; undergrowth, greasewood, and palo verde. Broken land, covered with dense undergrowth, 80.00 chs.

	Run on a random line bet. secs. 1 and 12. Set $\frac{1}{4}$ sec. cor. Intersect the E. bdy. of tp. at a point 5 lks. S. of cor. of secs. 1, 6, 7, and 12. Thence I run, S. 89° 58' W. on a true line, bet. secs. 1 and 12. Over broken country, covered with dense undergrowth.
40.00	
80.00	

BOOK 2072

chains
1.00
7.00
21.50
21.70
26.80
30.80
34.30
40.00

~~West bank of Santa Cruz River; course NW.~~
~~West bank of Santa Cruz River; course NW.~~
Wire fence, brs. NW. and SE.
House, brs. SE., 10 chs. dist. (*belongs to Julian Rodriguez*)
Road, Tucson - Red Rock, brs. NW. and SE. Ascend.
Top of ridge, descend.
Wash, 20 lks. wide, course N.
Wash, 20 lks. wide, course NE.
Set a conglomerate stone, 24 X 15 X 10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
A mesquite, 8 ins. diam., brs. S. $16^{\circ} 45'$ E., 47 lks. dist., marked $\frac{1}{4}$ S 12 BT.
No other tree available.
NW chor. of Ranch house, brs. N. $29^{\circ} 50'$ W.
Smokestack, DeBascano's Pumping plant, brs. N. $43^{\circ} 45'$ E.
Gulch, 60 lks. wide, course NE.
Old road, brs. NE. and SW. Ascend.
Road on top of ridge, brs. NE. and SW; descend.
Gulch, 20 lks. wide, course NE.
The cor. of secs. 1, 2, 11 and 12.
At noon, July 31, I set off $18^{\circ} 26'$ N. on the decl. arc and observe the sun on the meridian; the resulting lat. is $32^{\circ} 19'$ N.

46.80
51.80
69.80
77.80
90.00

North, $0^{\circ} 1'$ W. on a random line bet. secs. 1 and 2.
Set temp. $\frac{1}{4}$ sec. cor.
Intersect the N. bdy. of tp. at a point 32 lks. W. of witness cor. to secs. 35 and 36, and 60 lks. E. of the true cor. of secs. 35 and 36, in and 3, which I change to refer to secs. 35 and 36 only. In the best granite stone, 20 X 10 X 8 ins., 153 ins. in the ground, for clos. cor. to secs. 35 and 36, marked 0 3 on S., with 1 groove on the E. and 2 grooves on the W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable. *mesquite 8 ins. diam. in decl. arc*
dist. marked 1/4 S 12 E. 50.00 M.B.T.
1/4 S 12 E. 50.00 M.B.T.
Thence I run,

40.00
79.45

S. $0^{\circ} 1'$ E. on a true line bet. secs. 1 and 2.
Over broken land, through dense greasewood undergrowth. Enter Santa Cruz River bed, thence along bed of same.
Leave river bed.

8.45
32.45
33.10

South west corner of De Bascano's house, brs. N. $75^{\circ} 25'$ East.

36.45
39.45

Tucson to Red Rock, road, brs. E.N.E. and W.S.W.
Set a limestone, 24 X 8 X 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which

A mesquite, 5 1/2 ins. diam., brs. S. $45^{\circ} 15'$ W., 34 lks. dist., marked $\frac{1}{4}$ S 2 B T.
A mesquite, 10 ins. diam., brs. S. 71° E., 30 lks. dist., marked $\frac{1}{4}$ S 1 B T.

41.45
56.45
70.69

Main gulch, 30 lks. wide, course NE.
Old road, brs. NE. and W.S.W.

Smokestack of DeBascano house brs. N. $75^{\circ} 08'$ E.
SW cor. of Ranch House No. 1 brs. N. $81^{\circ} 15'$ E.
SW cor. of DeBascano's house brs. N. $36^{\circ} 0'$ E.
Smoke stack of DeBascano's pumping plant brs. N. 71° E.
SW cor. of ranch house No. 1 brs. N. $72^{\circ} 15'$ E.
The cor. of secs. 1, 2, 11 and 12.

75.82
79.45

M.C. and
measures of River
are supplemental
to P. 1
hereto attached
4/15/37

chains Land, broken.
 Soil, gravelly and sandy, 2nd and 3rd rate.
 No timber; undergrowth, greasewood and plao verde.
 Land covered with dense undergrowth, 79.45 chs.
 July 31, 1907.

August 1, 1907. At 7h 30 m, a.m., l.m.t., I set off
 32° 15' N. on the lat. arc and 18° 14' N. on the decl.
 arc and determine a true meridian with the solar at the
 cor. of secs. 2, 3, 34 and 35, on the S. bdy. of tp.
 Thence I run,
 N. 0° 1' W. bet. secs. 34 and 35.
 Descending over mountainous land, cove red with dense
 undergrowth.

20.00 Low point; thence ascend over broken ground.
 35.00 Ridge, extends NE. and SW; high point brs. E. 5 chs. dist.
 40.00 Set a limestone, 24 X 10 X 10 ins., 18 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
 raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.

46.70 Gulch, 20 lks. wide, course NE.
 47.30 Wagon road, brs. NE. and SW.
 58.80 Wash, 80 lks. wide, course NE.
 61.80 Wagon road, brs. NE. and SW.; descend.
 63.30 Dry wash, 20 lks. wide, course NE.; ascend.
 67.00 Top of ridge, extends NE. and SW.; descend.
 73.00 Wash, 80 lks. wide, course NE.
 78.70 Wagon road, brs. E. and W.
 80.00 Set a conglomerate stone, 20 X 12 X 8 ins., 15 ins.
 in the ground, for cor. of secs. 26, 27, 34 and 35,
 marked with 1 notch on the S. and 2 notches on the E.
 edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft.
 high, W. of cor. Pits impracticable.

A palo verde, 8 ins. diam., brs. S. 81° 30' W.,
 190 lks. dist., marked T 13 S., R. 12 E. S 34 B T.
 A palo verde, 6 ins. diam., brs. S. 49° E., 172
 lks. dist., marked T 13 S R 12 E S 35 B T.

No other trees available.
 Land, mountainous and broken.
 Soil, sandy and gravelly, 2nd and 3rd rate.
 Timber, palo verde; undergrowth, greasewood, jajora,
 and cactus.
 Mountainous land, covered with dense undergrowth, 80.00
 chs.

40.00 N. 89° 58' E. on a random line bet. secs. 26 and 35.
 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect the N. and S. line at a point 5 lks. N. of
 cor. of secs. 25, 26, 35 and 36.
 Thence I run,
 West on a true line bet. secs. 26 and 35.
 Ascending through dense mesquite and cactus undergrowth.

22.20 Top of knoll, extends NE.; descend.
 29.70 Dry wash, 10 lks. wide, course NE.
 36.40 Road to mining camp, brs. NE, and SW.
 39.55 Set a limestone, 20 X 10 X 6 ins., 15 ins. in the
 ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$
 on N. face, from whence
 A palo verde, 4 ins. diam., brs. N. 70° 30' W.,
 19 lks. dist., marked W C $\frac{1}{4}$ S 26 B T.
 A palo verde, 4 ins diam., brs. S. 7° 30' E.,
 107 lks. dist., marked W C $\frac{1}{4}$ S 35 B T.

40.04 Point for $\frac{1}{4}$ sec. cor. falls in wash.
 63.20 Wash, 20 lks. wide, course NE.
 68.90 Wash, 30 lks. wide, course NE.
 80.08 The cor. of secs. 26, 27, 34 and 35.
 Land, mountainous.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 Timber, scattering palo verde; undergrowth, mesquite,
 cactus and greasewood.
 Land cov

BOOK 2072

chains

Mountainous land, covered with dense undergrowth, 80.08 chs.

 N. 0° 1' W. bet. secs. 26 and 27.
 Over mountainous land, through dense greasewood undergrowth.
 7.20 Wash, 15 lks. wide, course E.
 20.10 Trail, brs. NE. and SW; descend.
 27.60 Gulch, 20 lks. wide, course NE.; ascend.
 32.00 Point of ridge, extends E. and W.
 33.20 Gulch, 50 lks. wide, course E.
 40.00 Set a conglomerate stone, 24 X 6 X 6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A palo verde, 4 ins. diam., brs. S. 32° 15' W., 53 lks. dist., marked $\frac{1}{4}$ S 27 B T. ✓
 A palo verde, 4 ins. diam., brs. S. 68° 15' E., 44 lks. dist., marked $\frac{1}{4}$ S 26 B T. ✓
 44.00 Top of ridge, extends E.
 49.20 Dry wash, 30 lks. wide, course NE.
 52.70 Dry wash, 30 lks. wide, course E.; ascend.
 60.50 Low gap of ridge, brs. E. and W. High point brs. E. 4 chs. dist.
 64.00 Descend into gulch, course N. Thence along same.
 68.00 Leave gulch.
 75.90 Main gulch, 30 lks. wide, course NE.
 80.00 Set a conglomerate stone, 16 X 12 X 10, 11 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. S. 71° 15' E., 172 lks. dist., marked T 13 S R 12 E S 26 B T. ✓
 A palo verde, 10 ins. diam., brs. S. 83° 50' W., 196 lks. dist., marked T 13 S R 12 E S 27 B T. ✓
 An ironwood, 8 ins. diam., brs. N. 24° 30' W., 253 lks. dist., marked T 13 S R 12 E S 22 B T. ✓
 No other tree available.
 Land, mountainous.
 Soil, sandy and gravelly, 2nd and 3rd rate.
 Timber scattering palo verde and ironwood; undergrowth, mesquite, greasewood and cactus.
 Mountainous land, covered with dense undergrowth, 80.00 chs.
 August 1; At noon, I set off 18° 11' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 16' N.

 East, on a random line bet. secs. 23 and 26.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.08 Intersect the N. and S. line at a point 12 lks. S. of cor. of secs. 23, 24, 25 and 26.
 Thence I run,
 S. 89° 55' W. on a true line bet. secs. 23 and 26.
 Over mountainous land, through dense greasewood undergrowth.
 2.10 Gulch, 20 lks. wide, course N.
 3.40 Wagon road, brs. N. and S.
 12.00 Wagon road, brs. NW. and SE.
 14.20 Dry wash, 30 lks. wide, course NW.
 40.00 Set a porphyry stone, 24 X 15 X 15 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. N. 13° 30' E., 43 lks. dist., marked $\frac{1}{4}$ S 23 B T.
 A palo verde, 4 ins. diam., brs. S. 61° 30' E., 170 lks. dist., marked $\frac{1}{4}$ S 26 B T.

chains

67.00

75.25

80.08

Wash, 30 lks. wide, course NE.

Gulch, 25 lks. wide, course SE.

The cor. of secs. 22, 23, 26 and 27.

Land, mountainous.

Soil, 2nd and 3rd rate.

Timber, scattering mesquite and palo verde; undergrowth, mesquite, cactus and greasewood.

Mountainous land, covered with dense undergrowth, 80 chs.

N. 0° 1' W. bet. secs. 22 and 23.

Over Mountainous land, through dense greasewood undergrowth.

1.75

Gulch, 20 lks. wide, course W.

7.50

Old road, brs. NE. and SW.

9.00

Trail, brs. E. and W.

19.50

Gulch, 30 lks. wide, course SE.

24.30

Gulch, 30 lks. wide, course SE.

26.80

Trail, brs. NW. and SE.; ascend.

38.70

Top of knoll.

40.00

Set a porphyry stone, 18 X 10 X 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.A palo verde, 6 ins. diam., brs. N. 65° W., 85 lks. dist., marked $\frac{1}{4}$ S 22 B T.

No other trees available.

Descend over broken ground.

80.00

Point for cor. of secs. 14, 15, 22 and 23 falls on a boulder in place, 2 ft. X 2 ft. X 1 in. above ground, which I mark with a cross (x) for exact cor. point, with 3 grooves S. of cross and 2 grooves E. of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.A palo verde, 6 ins. diam., brs. S. 50 $\frac{1}{2}$ ° W., 94 lks. dist., marked T 13 S R 12 E S 22 B T.

A palo verde, 6 ins. diam., brs. S. 88° E., 103 lks. dist., marked T 13 S R 12 E S 23 B T.

No other trees available.

Land, broken and mountainous.

Soil, sandy and rocky, 2nd and 3rd rate.

Timber, scattering palo verde; undergrowth, palo verde, greasewood, cactus.

Mountainous land, covered with dense undergrowth, 80 chs.

40.00

N. 89° 55' E. on a random line bet. secs. 14 and 23.

80.06

Set temp. $\frac{1}{4}$ sec. cor.

Intersect the N. and S. line at a point 12 lks. N. of cor. of secs. 13, 14, 23 and 24.

Thence I run,

West on a true line bet. secs. 14 and 23.

Over mountainous land, through dense greasewood undergrowth.

32.00

Old road, brs. NE. and SW.

40.06

Set a porphyry stone, 24 X 15 X 12 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.A palo verde, 6 ins. diam., brs. N. 40° 30' W., 60 lks. dist., marked $\frac{1}{4}$ S 14 B T.

49.00

Dry wash, course NE. Ascend along slope.

65.50

Gulch, 50 lks. wide, course NE.

78.00

Top of ridge, extends NE.

80.06

The cor. of secs. 14, 15, 22 and 23.

Land, mountainous.

Soil, sandy and rocky, 3rd rate.

Timber, scattering palo verde, undergrowth, palo verde, ironwood, greasewood and cactus.

Mountainous land, covered with dense undergrowth, 80.06 chs.

chains

August 2, 1907. At 7h 30m a.,m., l.m.t., I set off 32° 17' N. on the lat. arc, and 17° 59' W. on the declarc; and determine a true meridian with the solar at the cor. of secs. 14, 15, 22 and 23.

Thence I run, N. 0° 01' W. between secs. 14 and 15. Descending steep slope over mountainous land; covered with dense undergrowth.

8.00 Road to New State Copper Camp, brs. SW. and NE.

10.00 Gulch, 5 chs. wide, course NE.

39.80 Dry wash, 20 lks. wide, course NE.

40.00 Set a porphyry stone, 24 X 16 X 12 ins., 18 ins. in the ground, for W.C. 1/4 cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

40.40 A palo verde, 6 ins. diam., brs. S. 47° 45' W., 136 lks. dist., marked 1/4 S 15 B T. W.C.

A mesquite, 6 ins. diam., brs. N. 72° E., 160 lks. dist., marked 1/4 S 14 B T. W.C. 69 167

47.00 Wash, 40 lks. wide, course E.

52.00 Top of ridge, extends E.

80.00 Set a malapais stone, 24 X 16 X 10 ins., 18 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. and 2 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

A mesquite, 6 ins. diam., brs. S. 24° E. 77 lks. dist., marked T 13 S R 12 E S 14 B T.

A mesquite, 6 ins. diam., brs. S. 9° 30' W., 118 lks. dist., marked T 13 S R 12 E S 15 B T.

A mesquite, 4 ins. diam., brs. N. 20° 30' W., 130 lks. dist., marked T 13 S R 12 E S 10 B T.

No other tree available.

Land, mountainous.

Soil, sandy and rocky; 3rd rate.

Timber, scattering mesquite and palo verde; undergrowth, palo verde, greasewood, mesquite, cactus.

Mountainous land, covered with dense undergrowth, 80.00 chs.

----- East on a random line bet. secs. 11 and 14.

40.00 Set temp. 1/4 sec. cor.

80.04 Intersect the N. and S. line at a point 7 lks. S. of cor. of secs. 11, 12, 13 and 14.

Thence I run,

S. 89° 57' W. on a true line bet. secs. 11 and 14.

Over mountainous land, through dense greasewood undergrowth.

3.75 Dry wash, 50 lks. wide, course NE. Road brs. NE. and SW.

Ascend along S. slope of ridge.

6.40 Gulch, 30 lks. wide, course SE.

40.02 Set a porphyry stone, 24 X 10 X 8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

A palo verde, 4 ins. diam., brs. E. 31 1/2° E., 98 lks. dist., marked 1/4 S 11 B T.

A palo verde, 6 ins. diam., brs. S. 34° 15' W., 35 lks. dist., marked 1/4 S 14 B T.

47.00 Dry wash, 25 lks. wide, course NE.

62.40 Dry wash, 50 lks. wide, course NE.

77.00 Dry wash, 2.00 chs. wide, course NE.

80.04 The cor. of secs. 10, 11, 14 and 15.

Land, mountainous.

Soil, sandy and rocky, 2nd and 3rd rate.

Timber, scattering mesquite and palo verde; undergrowth, mesquite, palo verde, greasewood and cacti.

Mountainous land, covered with dense undergrowth, 80.04 chs. -----

chains

August 2; at noon, I set off 17° 56' N. on the decl. arc, and 32° 18' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence N. 0° 1' W. bet. secs. 10 and 11.

Ascending over mountainous land, covered with dense palo verde and mesquite undergrowth.

20.00

Top of ridge, extends NE. and SW.; descend.

33.00

Gulch, 50 lks. wide, course NE.

40.00

Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A palo verde, 6 ins. diam., brs. S. 0° 30' W., 35 lks. dist., marked $\frac{1}{4}$ S 10 B T.

A palo verde, 5 ins. diam., brs. N. 56° E., 25 lks. dist., marked $\frac{1}{4}$ S 11 B T.

44.00

Wash, 20 lks. wide, course NE.

59.50

Wash, 80 lks. wide, course NE.

67.20

Dry wash, 20 lks. wide, course NE.

69.10

Yuma road, brs. SW. and NE.

80.00

Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on the S. and 2 notches on the E., and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A palo verde, 12 ins. diam., brs. S. 49° 45' E., 192 lks. dist., marked T 13 S R 12 E S 11 B T.

No other trees available.

U. S. M. M. on Amole Peak brs. S. 40° 25' W.

Land, mountainous.

Soil, sandy and rocky, 2nd and 3rd rate.

Timber, scattering mesquite and palo verde; undergrowth, mesquite, palo verde, greasewood and cacti.

Mountainous land, covered with dense undergrowth, 80 chs.

40.00

N. 89° 57' E. on a random line bet. secs. 2 and 11. set temp. $\frac{1}{4}$ sec. cor.

79.98

Intersect the N. and S. line at a point 2 lks. N. of cor. of secs. 1, 2, 11 and 12.

Thence I run,

S. 89° 58' W. on a true line bet. secs. 2 and 11.

Ascending through dense mesquite and palo verde undergrowth.

14.00

Dry wash, 10 lks. wide, course N.

19.00

Dry wash, 15 lks. wide, course NE.

25.00

Old road, brs. NE. and SW.

28.00

Wash, 12 lks. wide, course NE.

39.99

Set a conglomerate stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

A palo verde, 6 ins. diam., brs. N. 105 lks. dist., marked $\frac{1}{4}$ S 2 B T.

A palo verde, 6 ins. diam., brs. S. 38 $\frac{1}{2}$ ° E., 103 lks. dist., marked $\frac{1}{4}$ S 11 B T.

43.50

Wash, 2.00 chs. wide, course NE.

61.90

Road to Yuma mine, brs. SW. and NE.

89.98

The cor. of secs. 2, 3, 10 and 11.

Land, mountainous and rolling.

Soil, gravelly, sandy; 2nd and 3rd rate.

Timber, mesquite, palo verde; and greasewood undergrowth.

Mountainous, or land covered with dense undergrowth,

79.98 chs.

August 2, 1907.

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BOOK 2072

chains

August 2, 1907. At 7h 30m., a.m., l.m.t., I set off
 17° 44' N. on the decl. arc and 32° 19' N. on the lat.
 arc, and determine a true meridian with the solar at the
 cor. of secs, 2, 3, 10 and 11.
 Thence I run,
 N. 0° 1' W. on a random line bet. secs. 2 and 3.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 79.50 Intersect the N. bdy. of tp. at a point 21 lks. W.
 of cor. of secs. 2, 3, 34 and 35.
 Thence I run,
 S. 0° 8' W. on a true line bet. secs. 2 and 3.
 Ascending over mountainous land, through dense mesquite
 and palo verde undergrowth.
 39.50 Set a conglomerate stone, 24 X 8 X 6 ins., 18 ins. in
 the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of cor. Pits impracticable.
 A palo verde, 8 ins. diam., brs. S. 46° W., 250 lks.
 dist., marked $\frac{1}{4}$ S 3 B T.
 A palo verde, 4 ins., diam., brs. S. 13° E., 25 lks.
 dist., marked $\frac{1}{4}$ S 2 B T.
 No other tree available.
 Descend.
 46.00 Main gulch, 130 lks. wide, course NE.
 66.50 Wash, 25 lks. wide, course NE.
 79.50 The cor. of secs. 2, 3, 10 and 11.
 Land, mountainous.
 Soil, sandy and rocky, 2nd and 3rd rate.
 Timber, scattering palo verde; undergrowth, mesquite,
 and palo verde.
 Mountainous land, covered with dense undergrowth, 79.50 chs.

 From the S. bdy. of tp. I run N. 0° 2' W., bet. secs. 33 & 34
 Descending over mountainous land, covered with dense
 undergrowth.
 13.00 Main gulch, 2.00 chs. wide, course NE.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls on boulder in place, 2 X 4
 ft., by 1 in. above ground, which I mark with cross (x)
 for exact $\frac{1}{4}$ sec. cor. point, and $\frac{1}{4}$ W. of cross, and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
 of boulder.
 48.45 Gulch, 20 lks. wide, course NE.
 63.50 Gulch, 20 lks. wide, course NE.
 70.70 Top of ridge, extends E. and W.; descend.
 72.50 Old prospect shaft, 4 X 6 X 2 ft., brs. E. 15 lks. dist.
 80.00 Set a conglomerate stone, 24 X 10 X 8 ins., 18 ins. in
 the ground, for cor. of secs. 27, 28, 33 and 34, marked
 with 1 notch on the S. and 3 notches on the E. edge,
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 W. of cor. Pits impracticable.
 Land, mountainous.
 Soil, gravelly and rocky, 2nd and 3rd rate.
 Timber, mesquite and palo verde; undergrowth, palo verde,
 mesquite and cacti.
 Mountainous land; exceptionally difficult to survey,
 80.00 chs.

 August 3; at noon, I set off 17° 41' N. on the decl.
 arc, and observe the sun on the meridian, the resulting
 lat. is 32° 16' N.
 N. 89° 58' E. on a random line bet. secs. 27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.02 Intersect the N. and S. line at a point 9 lks. N. of cor
 of secs. 26, 27, 34 and 35.
 Thence I run,
 N. 89° 58' W. on a true line bet. secs. 27 and 34.
 Over rolling and mountainous land, through dense under-
 growth.

chains
 11.70 Gulch, 15 lks. wide, course NE.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls on ledge on W. side of small wash. Ledge 2 X 2 ft. X 1 ft. above ground, which I mark with a cross (x) for exact $\frac{1}{2}$ sec. cor. point, and $\frac{1}{4}$ N. of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cross. Pits impracticable.
 A palo verde, 4 ins. diam., brs. N. 14° E., 171 lks. dist., marked $\frac{1}{4}$ S 27 B T.
 A palo verde, 6 ins. diam., brs. S. 58° E., 188 lks. dist., marked $\frac{1}{4}$ S 34 B T.
 46.00 U. S. M. M. NO. 2, brs. S. 70° 35' W.
 51.00 Gulch, 30 lks. wide, course N.
 63.50 Gulch, 20 lks. wide, course NE.
 76.15 Gulch, 10 lks. wide, course NE.
 80.02 The cor. of secs. 27, 28, 33 and 34.
~~A post, marked W 4 1083 brs. S. 45° 55' E.~~
 U S M M No. 2 brs. S. 78° 37' E. 22.10 chs.
 Land, rolling, and mountainous.
 Soil, 2nd and 3rd rate.
 Timber, palo verde; undergrowth, palo verde, mesquite and caeti.
 Land covered with dense undergrowth, 80.02 chs.

N. 0° 2' W. bet. secs. 27 and 28.
 Over mountainous land.
 8.50 Ravine, 30 lks. wide, course NE.
 16.30 Gulch, 10 lks. wide, course E.
 22.60 Gulch, 30 lks. wide, course E.
 31.00 Top of ridge, ext nds E. and W.; descend into valley.
 39.00 Set a conglomerate stone, 20 X 14 X 10 ins., 15 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. W. 29 lks. dist., marked W C $\frac{1}{4}$ S 28 B T.
 A palo verde, 4 ins. diam., brs. N. 60° E., 32 lks. dist., marked W C $\frac{1}{4}$ S 27 B T.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls in gulch, 20 lks. wide, course NE. Ascend through dense undergrowth.
 56.50 Top of ridge, extends E. and W.; descend into valley.
 61.00 Gulch, 1.00 chs. wide, course E.; ascend.
 70.00 Top of main ridge; extends E. and W.
 73.50 Gulch, 80 lks. wide, course E.; ascend.
 76.40 Top of slope, extends E.
 80.00 Set a conglomerate stone, 24 X 18 X 12 ins., 18 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. S. 24° W., 76 lks. dist., marked T 13 S R 12 E S 28 B T.
 A palo verde, 4 ins. diam., brs. N. 31° W., 49 lks. dist., marked T 13 S R 12 E S 21 B T.
 A palo verde, 6 ins. diam., brs. N. 0° 31' E., 139 lks. dist., marked T 13 S R 12 E S 22 B T.
 A palo verde, 6 ins. diam., brs. S. 84° E., 125 lks. dist., marked T 13 S R 12 E S 27 B T.
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 No timber; undergrowth, greasewood, palo verde, mesquite.
 Mountainous land, exceptionally difficult to survey, 80 chs.
 August 3, 1907.

chains

August 4, 1907. At 7h a.m., l.m.t., I set off 17° 29' N. on the decl. arc and 32° 16' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 21, 22, 27 and 28.
 Thence I run,
 S. 89° 58' E. on a random line bet. secs. 22 and 27.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.04 Intersect the N. and S. line at a point 5 lks. N. of cor. of secs. 22, 23, 26 and 27.
 Thence I run,
 N. 89° 56' W. on a true line bet. secs. 22 and 27.
 Over mountainous land.
 29.50 Gulch, 30 lks. wide, course NE.
 40.06 Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
 A palo verde, 6 ins., diam., brs. N. 71 $\frac{1}{2}$ ° E., 104 lks. dist., marked $\frac{1}{4}$ S 22 B T. ✓
 A palo verde, 4 ins. diam., brs. S. 45° E., 94 lks. dist., marked $\frac{1}{4}$ S 27 B T. ✓
 60.00 Gulch, course ENE.
 80.04 The cor. of secs. 21, 22, 27 and 28.
 Land, mountainous.
 Soil, gravelly and rocky; 2nd and 3rd rat .
 No timber, undergrowth, palo verde, mesquite, cacti.
 Mountainous land, exceptionally difficult to survey, 80.04 chs.

N. 0° 2' W. bet. secs. 21 and 22.
 Over mountainous land, covered with dense greasewood undergrowth.
 3.00 Main gulch, 80 lks. wide, course NE.; ascend.
 10.00 Top of sharp ridge; extends E. and W.
 22.00 Begin steep descent over boulders.
 36.00 Gulch, 30 lks. wide, course NE.
 40.00 Point for $\frac{1}{4}$ sec. cor. falls on granite ledge in place, 2 X 4 X 4 ft. above ground, which I mark with a cross (x) for exact $\frac{1}{4}$ sec. cor. point and $\frac{1}{4}$ W. of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. S. 39° W., 48 lks. dist., marked $\frac{1}{4}$ S 21 B T. ✓
 A palo verde, 8 ins. diam., brs. N. 22° E., 49 lks. dist., marked $\frac{1}{4}$ S 22 B T. ✓
 40.20 Wash, 10 lks. wide, course NE.
 48.50 Road, brs. NE. and SW.
 56.00 Gulch, 40 lks. wide, course NE; ascend.
 65.85 Top of ridge, extends NE; descend.
 80.00 Set a granite stone, 24 X 8 X 6 ins., 18 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked with 3 notches on the S. and E. edges, with 13 S on NE., and 12 E on SE face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
 A mesquite, 8 ins. diam., brs. N. 76 $\frac{1}{2}$ ° W., 111 lks. dist., marked T 13 S R 12 E S 16 B T. ✓
 A palo verde, 4 ins. diam., brs. S. 55° E., 111 lks. dist., marked T 13 S R 12 E S 22 B T. ✓
 A mesquite, 8 ins. diam., brs. N. 73° E., 222 lks. dist., marked T 13 S R 12 E S 15 B T. ✓
 No other tree available.
 Land, mountainous.
 Soil, gravelly and rocky; 2nd and 3rd rate.
 Timber, palo verde and mesquite: undergrowth, palo verde, mesquite, greasewood.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

chains	S. 89° 56' E. on a random line bet. secs. 15 and 22.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect the N. and S. line at a point 2 lks. S. of Cor. of secs. 14, 15, 22 and 23.
	Thence I run,
	N. 89° 57' W. on a true line bet. secs. 15 and 22.
	Over mountainous land, descending.
9.80	Road to New State Copper Co., brs. NE. and SW.
10.00	Wash, 2.00 chs. wide, course NE.
14.00	Begin ascent.
22.00	Top of ridge, extends NE. and SW.
40.03	Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	A palo verde, 6 ins. diam., brs. S. 14° E., 125 lks. dist., marked $\frac{1}{4}$ S 22 B T. ✓
	No other tree available.
44.00	Descend along west slope of ridge.
45.50	Gulch, 20 lks. wide, course NE.
46.00	Ascend east slope of ridge.
53.02	Top of ridge, extends NE. and SW.
54.00	Descend W. slope of ridge.
64.00	Ascend.
74.00	Top of ascent; descend.
80.06	The cor. of secs. 15, 16, 21 and 22. Land, mountainous. Soil, sandy and rocky; 2nd and 3rd rate. No timber; undergrowth, palo verde, mesquite and cacti. Mountainous land, exceptionally difficult to survey, 80.06 chs.

	August 4: At noon, I set off 17° 25' N. on the decl. arc and observe the sun on the meridian; the resulting lat. is 32° 17' N. ✓
2.00	N. 0° 2' W. bet. secs. 15 and 16. Over mountainous land. Gulch, 2.00 chs. wide, course NE.; ascend.
10.00	Top of ridge; extends NE. and SW.; descend.
34.00	Gulch, 50 lks. wide, course NE.
40.00	Set a malapais stone, 25 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.00	Top of ridge.
73.00	Top of ridge, extends E. and W.; begin steep descent.
80.00	Set a malapais stone, 28 X 14 X 10 ins., 18 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on the S. and 3 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, 2nd and 3rd rate. Timber, mesquite and palo verde. Undergrowth, mesquite, palo verde, jojova and cacti. Mountainous land, 80.00 chs.

40.00	S. 89° 57' E. on a random line bet. secs. 10 and 15.
80.04	Set temp. $\frac{1}{4}$ sec. cor. Intersect the N. and S. line at a point 7 lks. S. of cor. of secs. 10, 11, 14 and 15.
	Thence I run,
	West on a true line bet. secs. 10 and 15.
	Ascending over mountainous land, through dense mesquite and palo verde undergrowth.
20.00	Gulch, 20 lks. wide, course SE.
36.00	Wash, 10 lks. wide, course NE.
38.00	Gulch, 20 lks. wide, course NE.
40.02	Set a quartzite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and

chains

raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. S. 34° E., 39 lks dist., marked ¼ S 15 B T. ✓
 A palo verde, 8 ins. diam., brs. N. 62° 45' E., 90 lks. dist., marked ¼ S 10 B T. ✓
 63.00 Canyon, 30 lks. wide, course NW.
 Ascend along N. slope of high ridge.
 69.00 Gulch, 10 lks. wide, course NE.
 80.04 The cor. of secs. 9, 10, 15 and 16.
 Land, mountainous.
 Soil, sandy and rocky; 2nd and 3rd rate.
 Timber, mesquite and palo verde; undergrowth, mesquite, palo verde, cacti.
 Mountainous land, 80.04 chs.

August 4, 1907.

August 5: At 7h a.m., l.m.t., I set off 17° 13' N. on the decl. arc and 32° 18' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 9, 10, 15 and 16.
 Thence I run,
 N. 0° 2' W. bet. secs. 9 and 10.
 Descending, over mountainous land.
 6.00 Road, brs. E. and W.
 9.00 Gulch, 2.00 chs. wide, course NW.
 18.60 Old road, brs. NW. and SE.; descend.
 25.00 Road, brs. NE. and SW.
 31.00 Gulch, 20 lks. wide, course N., thence along gulch.
 38.00 Leave gulch, and ascend along E. side of slope.
 40.00 Set a malapais stone, 24 X 15 X 18 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. S. 40° E., 40 lks. dist., marked ¼ S 10 B T. ✓
 A palo verde, 6 ins. diam., brs. N. 80° W., 15 lks. dist., marked ¼ S 9 B T. ✓
 63.00 Wash, 20 lks. wide, course NNE.
 76.00 Same wash, 20 lks. wide, course NW.
 80.00 Point for cor. of secs. 3, 4, 9 and 10 falls on edge of wash, I mark a palo verde, 10 ins. diam., with 5 grooves on the S. and 3 grooves on the E. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. N. 52° E., 15 lks. dist., marked T 13 S R 12 E S 3 B T. ✓
 A mesquite, 30 ins. diam., brs. S. 42° W., 70 lks. dist., marked T 13 S R 12 E S 9 B T. ✓
 A mesquite 24 ins. diam., brs. N. 29½° W., 72 lks. dist., marked T 13 S R 12 E S 4 B T. ✓
 No other tree available.
 Land, mountainous.
 Soil, sandy and rocky; 2nd and 3rd rate.
 Timber, mes quite and palo verde; undergrowth, mesquite palo verde, greasewood and cacti.
 Mountainous land, 80.00 chs.

East on a random line bet. secs. 3 and 10.
 40.00 Set temp. ¼ sec. cor.
 80.00 Intersect the N. and S. line at a point 2 lks. S. of cor. of secs. 2, 3, 10 and 11.
 Thence I run,
 S. 89° 59' W. on a true line bet. secs. 3 and 9.

Chains.	Over mountainous land.
38.50	Wash, 40 lks. wide, course NE.
40.00	Set a conglomerate stone, 24 x 10 x 8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable. A palo verde, 6 ins. diam., brs. N. 38-1/2° E., 34 lks. dist., marked 1/4 S 3 B T. A palo verde, 6 ins. diam., brs. S. 2-1/2° W., 35 lks. dist., marked 1/4 S 10 B T.
76.00	Main wash, 50 lks. wide, course N.
77.00	Wash, 10 lks. wide, course N.
80.00	The cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, sandy and gravelly; 2nd and 3rd rate. Timber, mesquite and palo verde; undergrowth, mesquite, palo verde, cacti and greasewood. Land, mountainous. Soil, sandy and gravelly; 2nd and 3rd rate. Timber, palo verde, mesquite, greasewood and cacti. Mountainous land, 80.00 chs.

	N. 0° 2' W. on a random line, bet. secs. 3 and 4.
40.00	Set temp. 1/4 sec. cor.
79.40	Intersect the N. bdy. of township at a point 19 lks. W. of cor. of secs. 3, 4, 33 and 34, as previously described. Thence I run, S. 0° 6' W., on a true line, bet. secs. 3 and 4. Over mountainous land.
2.00	Old road, brs. NE. and SW.
8.00	Wash, 10 lks. wide, course NE.
30.00	Wash, 20 lks. wide, course NE.
38.00	Wash, 20 lks. wide, course NE.
39.40	Set a malpais stone, 24 x 15 x 10 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable. A palo verde, 6 ins. diam., brs. N. 65° E., 5 lks. dist., marked 1/4 S 3 B T. A palo verde, 6 ins. diam., brs. N. 46° W., 7 1/2 lks. dist., marked 1/4 S 4 B T.
44.00	Wash, 10 lks. wide, course NE.
45.00	Road, brs. NE. and SW.
48.50	Wash, 10 lks. wide, course NE.
58.00	Gulch, 20 lks. wide, course NE.
63.50	Old road, brs. NE. and SW. Top of ridge.
79.40	The cor. of secs. 3, 4, 9 and 10. Land, mountainous. Soil, sandy and gravelly; 2nd and 3rd rate. Timber, palo verde, mesquite; undergrowth, palo verde, mesquite, greasewood and cacti. Mountainous land, 79.40 chs.

	August 5: At noon, I set off 17° 09' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 15' N.
	North 0° 2' W., bet. secs. 32 and 33, on the S. bdy. of township.
	Over mountainous land.
27.20	Head of gulch, course SSW.
38.00	Top of main divide, brs. E. and W.
40.00	Set a conglomerate stone, 20 x 18 x 10 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable. Mining tunnel, brs. N. 33° W., 10 chs. dist. Deserted mining claim, brs. N. 58° 45' E. U.S.M.M. No. 2 brs. N. 70° 45' E.
54.00	Top of ridge, extends E. and W.
65.50	Gulch, 30 lks. wide, course E. Begin steep ascent.
72.00	Top of ridge, extends E. and W.
72.19	Whim on mine, brs. N. 82° 5' E. Tripod on mine, brs. N. 78° 45' W.

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Chains. Descend on N. side of slope.
 79.50 Gulch, 30 lks. wide, course E.
 80.00 Set a conglomerate stone, 24 x 18 x 15 ins., 18 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.
 A palo verde, 6 ins. diam., brs. N. 77-1/2° W., 24 lks. dist., marked T 13 S R 12 E S 29 B T.
 A palo verde, 10 ins. diam., brs. S. 34° W., 22 lks. dist., marked T 13 S R 12 E S 32 B T.
 No other trees available.
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 Timber, scattering palo verde; undergrowth, cacti, palo verde and mesquite.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

40.00 N. 89° 58' E. on a random line, bet. secs. 28 and 33.
 80.00 Set temp. 1/4 sec. cor.
 80.00 Intersect the N. and S. line at a point 5 lks. S. of cor. of secs. 27, 28, 33 and 34.
 Thence I run,
 S. 89° 58' W. on a true line, bet. secs. 28 and 33.
 Over mountainous land.

11.00 Gulch, 30 lks. wide, course NE.
 13.09 Intersect E. end line Woffenden Silver Lode, whence Cor. No. 2 Woffenden Silver lode, brs. S. 25° 08' W., 5.30 chs.
 At point of intersection, I set a conglomerate stone 24 x 10 x 10 ins., 18 ins. in the ground, marked C C on E face, W. S. on W. face, and 1 notch on S. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, E. of cor.

15.00 Road, brs. NE. and SW.
~~15.71 Post marked 2-1065 brs. S. 6° 26' E.~~
 20.50 Gulch, 30 lks. wide, course NE.
 25.58 Intersect S. side line Woffenden Silver, whence Cor. No. 2 of Woffenden Silver brs. S. 64° 52' E., 11.31 chs.
 At point of intersection, I set a conglomerate stone 20 x 10 x 10 ins., 15 ins. in the ground for closing cor. marked C C on W. face; W S on E. face and 1 notch on S. face, and raise a mound of stone 2 ft. base, 1-1/2 ft. high, W. of cor.

40.00 Set a limestone, 24 x 10 x 8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor. Pits impracticable.
 A mesquite, 4 ins. diam., brs. N. 4-1/2° E., 153 lks. dist., marked 1/4 S 28 B T.
 A mesquite, 6 ins. diam., brs. S. 4-1/4° W., 185 lks. dist., marked 1/4 S 33 B T.

51.69 Wash, 20 lks. wide, course ESE.
 57.60 Stone mound on line.
 58.50 Gulch, 30 lks. wide, course NEN.
 60.00 Ascend along N. side of gulch.
 80.00 To cor. of secs. 28, 29, 32 and 33.
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 No timber; undergrowth, greasewood, palo verde, mesquite and cacti.
 Mountainous land, exceptionally difficult to survey, 80.00 chs.

August 5, 1907.

August 6, 1907. At 7h. a.m., 1.m.t., I set off 16° 57' N. on the decl. arc; and 52° 16' N. on the lat. arc, and determine a true meridian with the solar at the cor. of secs. 28, 29, 32 and 33.

Thence I run,

chains	N. 0° 2' W. bet. secs. 28 and 29. Over mountainous land.
10.00	Top of ridge, extends E. and W.; descend.
40.00	Set a quartzite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Ascend.
70.00	Top of high ridge, extends E. and W. Begin steep descent.
80.00	Set a porphyry stone, 30 X 12 X 10 ins., 22 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Old deserted mining camp, New State Copper Company, brs. N. 40° W., 8 chs. dist. Mining claim, New State Copper Co., brs. S. 82° 45' W., 5.00 chs. dist. Land, mountainous. Soil, stony and rocky; 2nd and 3rd rate. No timber; undergrowth, greasewood, cacti. Mountainous land, exceptionally difficult to survey, 80.00 chs.
40.00	N. 89° 56' E. on a random line bet. secs. 21 and 28.
80.02	Set $\frac{1}{4}$ sec. cor. Intersect the N. and S. line at a point 9 lks. N. of cor. of secs. 21, 22, 27 and 28. Thence I run, West, on a true line bet. secs. 21 and 28. Ascending over mountainous land, through dense greasewood undergrowth.
14.00	Descend.
25.00	Deep canyon, 4.00 chs. wide, 100 lks. deep, course NE. Ascend over broken ground.
40.00	Set porphyry stone, 24 X 12 X 10 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. A palo verde, 6 ins. diam., brs. N. 39° E., 44 lks. dist., marked $\frac{1}{4}$ S. 21 B. T.
50.00	High Peak, brs. S. 20 chs. dist.
62.15	Top of ridge.
75.00	Head of gulch, 60 lks. wide, course NE.
80.02	Cor. of secs. 20, 21, 28 and 29. Land, mountainous. Soil, sandy and stony; 2nd and 3rd rate. No timber; undergrowth, greasewood and cacti. Mountainous land, covered with dense undergrowth, 80.02 chs.

	August 6; At noon, I set off 16° 53' N. on the decl. arc, and observe the sun on the meridian; the resulting lat. is 32° 15' N.
	N. 0° 2' W. bet. secs. 20 and 21. Over mountainous land.
8.00	Road to New State Copper Mine, brs. NE. and SW.
10.50	Gulch, 2.00 chs. wide, course E. Ascend steep slope.
22.55	Top of ridge, extends NE and SW; descend.
30.00	Canyon, 2.00 chs. wide, course E.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on perishable ground.

chains
58.00

Set a porphyry stone, 20 X 10 X 10 ins., 15 ins. in the ground on top of high peak, for witness cor. to $\frac{1}{4}$ sec. cor., marked W C $\frac{1}{4}$ on W.m and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A palo verde, 6 ins. diam., brs. W., 36 lks. dist., marked W C $\frac{1}{4}$ S 20 B T.

No other trees available.
Descend abruptly.

75.00

Gulch, 30 lks. wide, course NE.

80.00

Set a porphyry stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

A palo verde, 6 ins. diam., brs. S. 51 $\frac{1}{2}$ ° E., 47 lks dist., marked T 13 S R 12 E S 21 B T.

A palo verde, 6 ins. diam., brs. N. 65° W., 124 lks. dist., marked T 13 S R 12 E S 17 B T.

No other trees available.

Land, mountainous.

Soil, sandy and stony; 2nd and 3rd rate.

No timber, undergrowth, palo verde, greasewood and cacti.

Mountainous land, exceptionally difficult to survey,
80.00 chs.

East on a random line bet. secs. 16 and 21.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.04

Intersect the N. and S. line at the cor. of secs. 15, 16, 21 and 22.

Thence I run,

West on a true line bet. secs. 16 and 21.

Over mountainous land, covered with dense undergrowth.

12.45

Top of ridge.

26.00

Gulch, 20 lks. wide, course NE.

High peak, extending E. and W., brs. N. 25 chs. dist.

Ascend, gradually over broken land.

39.00

Wash, course NW.

40.02

Set a quartz stone, 24 X 10 X 8 ins., 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

This cor. falls on the S. side of wash.

A mesquite, 6 ins. diam., brs. S. 41° E., 48 lks. dist., marked $\frac{1}{4}$ S 21 B T.

An incline shaft, 30 ft. deep on N. side of wash, brs. N. 28° E., 67 lks. dist.

A palo verde, 6 ins. diam., brs. N. 51° W., 139 lks. dist., marked $\frac{1}{4}$ S 16 B T.

40.40

Wash, course NE.

40.50

Road, brs. SW. and NE.

49.00

Wash, course NE.

80.04

The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, stony and gravelly, 2nd and 3rd rate.

Timber, scattering mesquite and palo verde; undergrowth palo verde, mesquite, greasewood and cacti.

Mountainous land, exceptionally difficult to survey,
80.04 chs.

August 6, 1907.

chains	August 7, 1907. At 7h a.m., l.m.t., I set off 16° 40' N. on the decl. arc and 32° 17' N on the lat. arc and determine a true meridian with the solar at the cor. of secs. 16, 17, 20 and 21. Thence I run, N. 0° 2' W. bet. secs. 16 and 17. Over mountainous land.
3.00	Divide between two canyons, brs. NE. and SW.
40.00	Descend along E. side of gulch, over broken ground. Point for $\frac{1}{4}$ sec. cor., falls on ledge in place, 2 X 4 X 1 foot above ground, which I mark with a cross (x) and $\frac{1}{4}$ W. of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of ledge. Pits impracticable. A palo verde, 4 ins. diam., brs. S. 32° E., 20 lks. dist., marked $\frac{1}{4}$ S 16 B T. A palo verde, 6 ins. diam., brs. S. 71° W., 160 lks. dist., marked $\frac{1}{4}$ S 17 B T.
45.00	High peak on point of mountain, brs. E. 20 chs. dist. Tunnel, west side of gulch, brs. N. 29° W. Deserted mining camp on W. side of gulch, brs. S. 66° W. Descend along E. side of gulch, over broken land.
58.00	Discovery shaft and location monument of LaFayette Mine * brs. N. 80° W., 4 chs. dist., located June 30, 1902, by V. C. Brichta. This claim extends in a southeasterly and northwesterly direction.
80.00	Set a porphyry stone, 24 X 8 X 6 ins., 18 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on the S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. 6 ins. diam. A palo verde, brs. N. 3 $\frac{1}{2}$ ° W., 182 lks. dist., marked T 13 S R 12 E S 8 B T. A palo verde, 6 ins. diam., brs. S. 79 $\frac{1}{2}$ ° E., 133 lks. dist., marked T 13 S R 12 E S 16 B T. No other trees available. Land, mountainous. Soil, sandy and rocky; 2nd and 3rd rate. Timber, scattering palo verde, and mesquite: undergrowth, palo verde, mesquite, cacti and greasewood. Mountainous land, exceptionally difficult to survey, 80.00 chs.
80.00	East, on a random line bet. secs. 9 and 16. 40 set temp $\frac{1}{4}$ sec
11.80	Intersect N. and S. line at point 12 lks. S. of cor. 9, 10, 15 & 16
17.00	Thence S. 55° W. on true line, bet. secs. 9 and 16.
21.00	Gulch, 50 lks. wide, course N. Mouth of gulch, course N. Leave gulch to left, ascend gradually through dense greasewood undergrowth.
26.50	Gulch, course NE.; fence along gulch.
27.50	Trail, brs. NE. and SW. Descend.
40.00	Set a conglomerate stone, 24 X 10 X 8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. A palo verde, 6 ins. diam., brs. S. 42 $\frac{1}{2}$ ° W., 81 lks. dist., marked $\frac{1}{4}$ S 16 B T. A palo verde, 3 ins. diam., brs. N. 4 $\frac{1}{2}$ ° W., 26 lks. dist., marked $\frac{1}{4}$ S 9 B T.
50.00	High peak, extends E. and W., brs. N. 10 chs. dist. Begin steep ascent.
62.65	Top of peak on divide. Begin steep descent.
76.00	Gulch, 200 chs. wide, course SW.
80.00	The cor. of secs. 8, 9, 16 and 17. Land, mountainous. Soil, sandy and rocky; 2nd and 3rd rate. No timber; undergrowth, greasewood, palo verde, cacti. Mountainous land, exceptionally difficult to survey, 80.00 chs. At noon, I set off 16° 36' N. on the decl. arc, and

26
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chains

40.00
51.00
67.50
76.00
76.30
78.50
80.00
80.50
mkd. with
40.00
80.00
4.00
30.00
35.00
40.00
60.00
67.00
78.80
80.00

observe the sun on the meridian; the resulting lat. is 32° 18' N.

N. 0° 2' W. bet. secs. 8 and 9'

Gradually descending over mountainous land.
Set a limestone, 24 X 10 X 8 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise amount of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

Road, brs. NE. and SW.
Shaft on open cut, located by Blue Shower Co., brs. W. of line, 30 lks. dist., extending in a northerly and southerly direction.

Road, brs. NE. and SW.
Wash, 30 lks. wide, course NE.

Road, brs. SE. and NW, falls in gulch, course Se.
Point for cor. of secs. 4, 5, 8 and 9, on line bet. secs. 4 & 5

Set a granite stone, 24 X 10 X 8 ins., 18 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, on line bet. secs. 4 & 5 5 notches on the S. and 4 notches on the E. edge, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

- A palo verde, 6 ins. diam., brs. S. 12° 45' W., 82 lks. dist., marked T 13 S R 12 E S 8 B T. W C ✓
- A mesquite, 6 ins. diam., brs. N. 89 1/2° W., 104 lks. dist., marked T 13 S R 12 E S 5 B T. W C ✓
- A palo verde, 6 ins. diam., brs. S. 69° E., 170 lks. dist., marked T 13 S R 12 E S 9 B T. W C ✓
- A palo verde, 6 ins. diam., brs. N. 3° E., 22 lks. dist., marked T 13 S R 12 E S 4 B T. W C ✓

Land, mountainous.
Soil, sandy and rocky; 2nd and 3rd rate.
Timber, mesquite and palo verde, undergrowth, greasewood, cacti, palo verde.
Mountainous land, exceptionally difficult to survey, 80. chs.

N. 89° 55' E. on a random line bet. secs. 4 and 9.

Set temp. 1/4 sec. cor.
Intersect the N. and S. line at a point 21 lks. N. of cor. of secs. 3, 4, 9 and 10.

Thence I run,
N. 89° 56' W. on a true line bet. secs. 4 and 9.
Ascending through dense greasewood and palo verde undergrowth.

Gulch, 10 lks. wide, course NE.
Main gulch, 3 chs. wide, course NE.

Set a malapais stone, 24 X 10 X 8 ins., 18 ins. in the ground, for witness corner to 1/4 sec. cor., marked W C 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable.

- A palo verde, 6 ins. diam., brs. S. 21° E., 21 lks. dist., marked W C 1/4 S 9 B T. ✓
- A palo verde, 4 ins. diam., brs. N. 15° W., 20 lks. dist., marked W C 1/4 S 4 B T. ✓

Begin steep ascent.
Point for 1/4 sec. cor., falls on high bluff.
Top of high peak; descend.

Wash, 5.00 chs. wide, course E.
Wash, 25 lks. wide, course N.
The cor. of secs. 4, 5, 8 and 9, 50 lks. N. of line.

Land, mountainous.
Soil, sandy and rocky; 2nd and 3rd rate.
No timber, undergrowth, palo verde, greasewood and cacti.
Mountainous land, exceptionally difficult to survey, 80.00 chs.

August 7, 1907.

Subdivision of Township 13 South, Range 12 East.

Chains.	August 8, 1907. At 7h.a.m., 1.m.t., I set off $16^{\circ}24'N.$ on the decl. arc; and $32^{\circ}19'N.$ on the lat. arc, and determine a true meridian with the solar at the cor. point for secs. 4, 5, 8 and 9.
	Thence I run,
40.00	$N.0^{\circ}2'W.$, on a random line, bet. secs. 4 and 5.
79.50	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect the N. bdy. of Tp. at a point 19 lks. W. of cor. of secs. 4, 5, 32 and 33, as described.
	Thence I run,
	$S.0^{\circ}06'W.$ on a true line, bet. secs. 4 and 5.
	Over mountainous land.
1.20	Wash, 20 lks. wide, course NNE.
	Ascend along E. slope of wash, through dense brush.
18.00	High point of boulder on line.
30.50	Wash, 20 lks. wide, course NE., begin steep ascent.
39.50	Point for $\frac{1}{4}$ sec. cor. falls on malpais stone, in place, $2 \times 1 \times 1$ ft. above ground, which I mark with a cross (x) for exact $\frac{1}{4}$ sec. cor. point, and $\frac{1}{4}$ W of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of boulder. Pits impracticable.
	A palo verde, 4 ins. diam., brs. W. 4 lks. dist., marked $\frac{1}{4}$ S 5 B T.
	A palo verde, 4 ins. diam., brs. E. 12 lks. dist., marked $\frac{1}{4}$ S 5 B T.
46.25	Top of high peak; descend abruptly.
56.50	Wash, 30 lks. wide, course NE.
59.00	Main wash, 40 lks. wide, course NE.
79.50	The cor. point of secs. 4, 5, 8 and 9.
	Land, mountainous.
	Soil, sandy and gravelly; 2nd and 3rd rate.
	Timber, palo verde, mesquite; undergrowth, greasewood, palo verde and cacti.
	Mountainous land, exceptionally difficult to survey, 79.50 chs.

	From the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of Tp., I run,
	$N.0^{\circ}3'W.$, bet. secs. 31 and 32.
	Over mountainous land, along E. slope of peak.
2.30	Intersect N. line New Strike lode, whence NW. cor. of New Strike lode brs. N. $69^{\circ}53'W.$, 4.20 chs.
	At point of intersection I set a porphyry stone $24^{\text{ins}} \times 15^{\text{ins}}$ $\times 10^{\text{ins}}$ $\times 18^{\text{ins}}$ in the ground for closing corner, marked C C on N., N S on S, and 5 notches on E. faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
6.21	Intersect the S. side line of the Lola Lopez Mining Claim at a point from which Cor. No. 3 brs. $S.73^{\circ}40'E.$, 11.11 chs. dist., At point of intersection I set a granite stone, $24 \times 10 \times 8$ ins., 18 ins. in the ground for closing corner, marked
	L L on N,
	T 13 S R 12 E C C on S face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of stone.
7.00	Top of gap in ridge, brs. SW. and NE.; descend steep slope.
15.68	Intersect the N. side line of the Lola Lopez Mining Claim at a point from which Cor. No. 6 brs. $N.73^{\circ}43'W.$, 9.06 chs. dist., At point of intersection I set a granite stone, $20 \times 10 \times 6$ ins., 15 ins. in the ground, for closing corner marked,
	L L on S,
	T 13 S R 12 E C C on N face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
37.00	Trail, brs. E. and W.
40.00	Set a conglomerate stone, $24 \times 18 \times 15$ ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and

Chains.

raise a mound of stone, 2 ft. base, 1-1/2 ft. high, N. of cor.

~~37.00~~ Trail, brs. E. and W.

~~40.00~~ Set a conglomerate stone, 24 x 18 x 15 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.

44.00 Canon, course W.

60.00 Top of ridge, extends SW. and NE.

80.00 Set a porphyry stone, 24 x 10 x 8 ins., 18 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E. edge; and raise a mound of stone, 2 ft. base, 1-1/2 ft. high, W. of cor. Pits impracticable.

A palo verde, 6 ins. diam., brs. S. 1° W., 22 lks. dist., marked T 13 S R 12 E S 31 B T.

A palo verde, 6 ins. diam., brs. N. 30° E., 420 lks. dist., marked T 13 S R 12 E S 29 B T.

Land, mountainous.

Soil, sandy and rocky; 2nd and 3rd rate.

No timber; undergrowth, greasewood, cacti, palo verde and mesquite.

Mountainous land, exceptionally difficult to survey, 80.00 chs.

August 8, 1907.

GENERAL DESCRIPTION.

The greater part of this township is a broken mesa, or rough, broken country, running from the foot of the general slope of the Tucson Mountains to the Valley of the Santa Cruz River. The western portion is very rough, and mountainous; the main divide of the Tucson range running Northerly and Southerly. I omitted the survey of a part of the western portion of the township, as it contains no agricultural land and is very rough and impracticable for chaining.

There is very little water in any part of the township, no permanent springs in the mountains, nor is there any water in the canons except during the rainy seasons. The timber consists of mesquite, palo verde, which is very dense in the northeastern portions, and the soil in the northeastern portion along the Santa Cruz River is very fertile. De Bascano occupies and cultivates about eighty acres of land in Section 1. He has good improvements, such as a pumping plant and canal for irrigation, dwelling house, barn, etc.

Julian Roderquez occupies and cultivates about forty acres of land in Section 1. No other permanent settlers were noted.

The geological features of this township are very complex. The mountains in the western portion consist of porphyry, quartzite and igneous rock. The porphyry and igneous outcroppings appear to have broken the general crust of the earth into immense blocks and occur in such peculiar formation as to be almost unintelligible, except to an expert geologist.

John P. Wright
M. S. Deputy Surveyor

chains

BOOK 2072

Knowing that my subdivision of Tp. 13 South, R. 12 East, will not close within allowable limits on the N. Bdy. of Tp., it becomes necessary to retrace that portion of the north boundary.

I begin at the NE. cor. of Tp., which is a volcanic stone, marked and witnessed as described by the Surveyor General.

Thence I run, West, on the N. Bdy. of Tp., N. of Sec. 1. Over rolling land.

7.45 Wire fence, brs. NW. and SE.
 9.55 Center of main track of the Southern Pacific R. R.
 11.03 Wire fence, brs. NW. and SE.
 22.00 Enter dense mesquite undergrowth.
 39.88 Find $\frac{1}{4}$ sec. cor., marked and witnessed as described by the Surveyor General.

78.75 No sign of the old original witness cor. as described by the Surveyor General, except one original bearing tree, which is a mesquite properly marked; from which I reset the original witness cor. by setting a *post granite* stone ~~5 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, S. 59° W. 35 lks. dist., from bearing tree, which I mark~~

~~T 12 S R 12 E S 36 W C.T.~~

~~R 12 E S 1 on SE.,~~

~~S 2 on SW.,~~

~~S 35 on NW face, with 1 groove on the E. and 5 grooves on the W. face, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high. W. of cor.~~

65 From this cor. a mesquite, 12 ins. diam., brs. N. W., 30 lks. dist., marked T 12 S R 12 E S 36 W C B T.

79.75 No other trees within limits. Point for orig. sec. cor. falls on the E. edge of Santa Cruz River, impossible to establish. Land, mountainous and rolling. Soil, sandy and gravelly; 1st rate. Timber, mesquite; undergrowth, mesquite and tesota. Mountainous land, or land covered with dense undergrowth, 79.75 chs.

July 28, 1907

July 29, 1907. At 7 h 30m. a.m., l.m.t., I set off 18° 57' N., on the decl. arc, and 32° 20' N. on the lat arc, and determine a true meridian with the solar at the ~~top~~ point of secs. 1, 2, 35 and 36.

Thence I run, West, on the N. bdy. of Tp. N. of sec. 2. Over rolling land, through dense undergrowth.

2.25 Center of Santa Cruz River, 4.50 chs. wide, course N.
 4.50 Leave Santa Cruz River, enter dense mesquite Brush.
 18.85 Irrigation ditch, course NE.
 28.00 Deserted ranch house, brs. S. 2.00 chs. dist.
 35.10 Wagon road, Tucson to Red Rock, brs. NW. and SE.
 39.56 Find $\frac{1}{4}$ sec. cor., 5 lks. S. of line, marked and witnessed as described by the Surveyor General.

48.55 Road, brs. NW. and SE. Leave valley and ascend over rolling land, through dense palo verde and greasewood undergrowth.

68.65 Dry wash, 20 lks. wide, course NE.
 70.80 Road to Yuma Mine Co., brs. NE. and SW.
 78.95 Find the cor. of secs. 2, 3, 34 and 35, 15 lks. S. of line, marked and witnessed as described by the Surveyor General.

Land, rolling. Soil, sandy and gravelly; 1st and 2nd rate. No timber; undergrowth, palo verde and mesquite. Land covered with dense undergrowth, 78.95 chs. Course of the 1st half mile is S. 89° 56' W. Course and distance of the 2nd half mile is S. 89° 51' W. 39.88 chs.

For M.C. and meanders see P. 1 upper mental notes hereto attached

BOOK 2072

chains

West, on the N. Bdy. of Tp. Bet. secs. 3 and 4.
 Over broken land, through dense palo verde and
 greasewood undergrowth.
 Gulch, 5 lks. wide, course N.
 Find $\frac{1}{4}$ sec. cor. on line, marked and witnessed as
 described by the Surveyor General.
 Dry wash, 10 lks. wide, course N.
 Dry wash, 10 lks. wide, course N.
 Dry wash, 10 lks. wide, course NE.
 Find orig. cor. 3 lks. S. of line, marked and
 witnessed as described by the Surveyor General.
 Course & distance of this $\frac{1}{2}$ mile is S. 89° 57' W., 39.95 chs.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 No timber; undergrowth, palo verde, mesquite,
 greasewood and cacti.
 Land covered with dense undergrowth, 80.00 chs.

West, on the N. bdy. of Tp. bet. secs. 4 and 33.
 Over rolling land, through dense palo verde and
 mesquite undergrowth.
 Gulch, 30 lks. wide, course N.
 Gulch, 20 lks. wide, course NE.
 Gulch, 20 lks. wide, course NE.
 Find $\frac{1}{4}$ sec. cor. 5 lks. S. of line, marked and
 witnessed as described by the Surveyor General.
 Dry was h, 10 lks. wide, course NE.
 Dry wash, 10 lks. wide, course NE.
 Dry wash, 20 lks. wide, course ENE.
 Dry wash, 2.50 lks. wide, course N.
 Find original cor. of secs. 4, 5, 32 and 33, 20 lks.
 N. of line, marked and witnessed as described by
 the Surveyor General.
 Land, rolling.
 Soil, sandy and gravelly; 2nd and 3rd rate.
 No timber; undergrowth, palo verde, mesquite.
 Land covered with dense undergrowth, 80.10 chs.
 Here I discontinue the North Bdy. of Tp., as the
 remainder runs over mountainous land, non-agricul-
 tural and impracticable to survey.
 Course of the first $\frac{1}{2}$ mile is S. 89° 56' W., 40.07.
 Course of the 2nd half mile is N. 89° 39' W., 40.13 chs.

37.50

40.05

42.00

61.50

71.00

80.00

1.80

22.35

26.85

39.97

41.35

55.00

67.00

78.80

80.10

July 29, 1907.

Jesse Wright
 U. S. Deputy Surveyor.

*For authority for red ink corrections see
 Deputy's letter dated July 17, 1908 and June 6, 1908.*

LIST OF NAMES.

A list of the names of the individuals employed by

Jesse B Wright

a, 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

T. 13 S. R. 12 E., T. 18 S. R. 11 E., T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E., T. 6 N. R. 11 T. 12 E., G. T. S. R. B. M.

showing the respective capacities in which they acted:

Leon G. Moore, Chairman.

Raymond A. Newton, Chairman.

Robert H. Rogers, Chairman.

Walter J. Percival, Chairman.

William H. Harrison, Chairman.

Benjamin H. Kerrick, Assman.

Frank E. Culin, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

Jesse B Wright

a, United States Deputy Surveyor, in surveying all those parts or portions of the

T. 13 S. R. 12 E., T. 18 S. R. 11 E.

T. 15 S. R. 22 E., T. 14 T. 15 S. R. 27 E.

and T. 6 N. R. 11 T. 12 E.

of the G. T. S. R. 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

ARIZONA

Leon G. Moore, Chairman.

Raymond A. Newton, Chairman.

Robert H. Rogers, Chairman.

Walter J. Percival, Chairman.

William H. Harrison, Chairman.

Benjamin H. Kerrick, Assman.

Frank E. Culin, Flagman.

Subscribed and sworn to before me this 27th day of November, 1897



M. Maude Harrison Notary Public in and for Pima County Arizona

my commission expires Jan. 11 - 1911

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BOOK 2072

Final Oath of United States Deputy Surveyor.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Dugalk, United States Surveyor General for Arizona, bearing date of the 15th day of April, 1907, 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 Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of T 13 S R 12 E
T 18 S R 11 E, T 15 S R 22 E,
T 14 T 15 S R 27 E and
T 6 N R 11 T 12 E

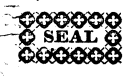
of the Gila Salt River base and _____ meridian, in the Territory of Arizona, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ARIZONA and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me this 29th day of November, 1907

[Signature]

U. S. Commissioner, First Judicial District,
Territory of Arizona, residing at Tucson.



APPROVAL.

Office of the United States Surveyor General,

Phoenix, Ariz. July 28, 1907

The foregoing field notes of the survey of the subdivisional lines of T 13 S R 12 E and resurvey of the East body of T 13 S R 12 E, of the Gila and Salt River Base and Meridian in the territory of Arizona, together with a partial re-tracement of the North Body of T 13 S R 12 E.

executed by Jesse B. Wright U.S. deputy surveyor under his contract No. 145, dated April 15th 1907, 1907, 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. Dugalk
United States Surveyor General.

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.

copied July 21

BOOK 2072

FIELD NOTES

OF THE SURVEY OF THE

Meander of the Santa
Cruz River, through
T. 13 S. R. 12 E.

Of the ESTRBM Meridian,

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,
Under his Contract No. 145-, dated April 15, 1907

Survey commenced May 27, 1908

Survey completed May 27, 1908

NAMES AND DUTIES OF ASSISTANTS.

George A Hawley
Walter Percival

BOOK 2072

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page 1 and 2

PRELIMINARY OATHS OF ASSISTANTS.

WE, George A. Hawley and Walter Percival

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

Meanders of Santa Cruz River
Through T135R12 E.

George A. Hawley, Chairman.
Walter Percival, Chairman.

Subscribed and sworn to before me this 29th
day of May, 1908
MY COMMISSION EXPIRES OCTOBER 29 1909.



William M. Pryce
Notary Public

WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



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 _____
day of _____, 190 _____



I, _____, 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 _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



CHAINS.

Survey begun May 27, 1908 and executed with a Young & Sons light mountain transit No. 6492, with Smith Patent solar attachment on side, the arcs and plates reading by verniers to 1' of arc. This instrument I tested by a true meridian established by polaris and found it to be correct. I begin at the closing Cor. of Secs. 1 & 2 on N. b'dy of T. 13 S. R. 12 E. as established by me at point 12 lks W. of the witness corner of Secs. 35 & 36 of T 12 S R 12 E. This closing corner I also mark M.C. on S. Face for a meander Cor. and at this point at 8h 30m 1.m.t. I set off 21° 19' N. on the declination arc and 32° 20' N. on the lat. arc and determine a true meridian with the solar, thence I run Var. 14° 40' E.

see p. 29 orig notes

.20
5.00

West, along N. b'dy of Sec. 2. T 13 S R 12 E. Enter Santa Cruz River bed: West bank of Santa Cruz River 2 ft. high. Set a sandstone 20" X 12" X 6" 15" in the ground for a meander corner marked M.C. on S.E. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor. from which, a mes. tree 10" diam. brs. S. 84° W. 70 lks. dist. mkd. T. 13 S R 12 E S 2 M.C.B.T. a mes. tree 3" diam. brs. S. 66° E. 61 lks. dist. mkd. " " " No other trees available.

Thence I run, through dense mesquite, Var. 14° 40' E. along West bank of Santa Cruz River.

S. 45° E. -----	3.00 chs.	River bank 2 ft. high.
South -----	20.00 chs.	" " 3 " "
S. 18° E. -----	6.60 " "	" " 4 " "
S. 10° E. -----	4.90 " "	" " 4-10 ft. high

At this point I intersect the Sec. line bet. Secs. 1 & 2 6.20 chs. N. of 1/4 Sec. Cor. At pt. of intersection, I set limit 20" X 10" X 8" 15" in the ground for Meander Cor. Marked M.C. on N. face and I groove on E. face and raise a mound of stone 2 ft. base 1 1/2 ft. high S. of Cor. from which, a mesquite tree 6" diam. brs. N. 7° E. 65 lks dist. marked T. 13 S. R. 12 E. S. 1 M.C.B.T.

see p. 10 orig notes

A mesquite tree 14" diam. brs. S. 71 1/2° E. 75 lks. dist. marked T. 13 S. R. 12 E. S. 1 M.C.B.T. No other bearings available.

Bank at this point is 10 ft. high, being against edge of mesa. Thence I run,

S. 47° E. ----	3.60 chs.	desc. to low bottom subject to overflow,
S. 80° E. --	6.90 "	bank 1 ft. high
S. 60° E. ----	10.00 "	" 2 " "
S. 68° E. --	10.20 "	" 2 " "
S. 63° E. ----	9.90 "	" 2 " "
S. 61° E. ----	9.00 "	" 3 " "
S. 75° E. ----	5.00 "	" 2 " "
S. 78° E. ----	6.30 "	" 3 " "
S. 62° E. ----	10.40 "	" 3 " "
S. 45° E. ---	8.00 "	" 3 " "
S. 50° E. ----	12.60 "	" 3 " "

At this point intersect the East b'dy of Tp. 3.70 chs. N. of the Cor. of Secs. 1, 6, 7 and 12, at which point of int. set a granite stone 24" X 20" X 8" 18" in the ground for meander Cor. marked M.C. on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high S.W. of Cor. from which, a mesquite tree 6" diam. brs. S. 42° E. 63 lks. marked T. 13 S. R. 13 E. S. 6 M.C.B.T. a mes. tree 12" diam. brs. S. 89° W. 88 lks. dist. mkd. T. 13 S. R. 12 E S. 1 M.C.B.T. No other bearings available.

see p. 4 orig notes

Meanders of Santa Cruz River through T.13 S. R. 12 E.

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see orig
note page 4
BOOK 2072

Chains

From the corner of secs. 1 & 12 on E. b'dy of Tp. I run, North, Var. 14° 40' E.

3.70 meander Cor. on S. bank of Santa Cruz River as heretofore described and enter Santa Cruz River.

10.85 North bank of Santa Cruz River 10 ft. high, on top of bank Set a granite stone 20" X 10" X 8" X 15" in the ground for a meander Cor. marked M.C. on S. face,

from which, Mesquite tree 8" diam. brs. S. 9° W. 19 lks. dist. mkd.

T.13 S. R. 12. E. S. 1 M.C.B.T.

a mes. tree 6" diam. brs. N. 85° E. 24 lks. dist. mkd.

T.13 S. R. 13 E. S. 6 M.C.B.T.

No other trees available

thence I run, through dense mesquite, along N. bank of River N. 42° 02' W. --- 10.10 chs. bank 10 ft. high.

4.20 on this line S. bank of Rillito Creek, dry.

8.10 " " " N. " "

N. 58° 00' W. --- 15.60 chs. bank 2 ft. high.

N. 75° W. --- 8.00 " " 4 " "

N. 85° W. --- 3.00 " " 4 " "

N. 74° W. --- 3.00 " " 4 " "

N. 66° W. --- 5.00 " " 4 " "

N. 60° W. --- 9.00 " " 4 " "

N. 63° W. --- 14.00 " " 4 " "

N. 79° W. --- 5.20 " " 4 " "

N. 68° W. --- 3.60 " " 4 " "

N. 53° 15' W. --- 6.10 " " 4 " "

N. 44° W. --- 3.60 " " 4 " "

N. 32° W. --- 8.60 " " 3 " "

N. 1° 45' W. --- 12.10 " " 3 " "

N. 7° W. --- 5.00 " " 3 " "

N. 0° 1' W. --- 4.00 chs. to meander Cor. on N. b'dy of Tp. being point of beginning and identical with closing Cor. of secs. 1 & 2 on N. b'dy of T.13 S. R. 12 E.

Land gently rolling, soil 1st & 2nd rate loamy, sandy, gravelly; timber, mesquite and cottonwood, undergrowth, dense mesquite and tesota.

Distance- 242.20 chs. of land covered with dense undergrowth and exceptionally difficult to survey.

Survey completed May 27, 1908

Joseph B. Wright
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

BOOK 2072

LIST OF NAMES.

A list of the names of the individuals employed by Jesse B. Wright

a, 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

Meander of Santa Cruz River through T. 13S R. 12 E

showing the respective capacities in which they acted:

George A. Hawley, Chainman.

Walter Percival, Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

....., United States Deputy Surveyor, in surveying all those parts or portions of the

Meander of the Santa Cruz River through T. 13S R. 12 E.

..... of the

GASRB meridian, 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 Arizona

George A. Hawley ✓, Chainman.

Walter Percival ✓, Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this 9th

day of June, 1908

MY COMMISSION EXPIRES OCTOBER 30 1908.



William M. Payne
Notary Public.

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BOOK 2072

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Jesse B. Wright, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Frank S. Ingalls United States Surveyor General for Arizona, bearing date of the 15th day of April, 1907, 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 Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

The meander line of the Santa Cruz River through T. 13 S., R. 12 E.

of the S&R 19⁺ 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 Arizona and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Jesse B. Wright
United States Deputy Surveyor.

Subscribed by said Jesse B. Wright, and sworn to before me) this 9th day of June, 1908

W. H. McHenry



U. S. Commissioner, First Judicial District, Territory of Arizona, residing at Tucson.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ar., July 20th, 1908

The foregoing field notes of the survey of the meanders of the Santa Cruz River through T. 13 S., R. 12 E. of the Gila and Salt River Base and Meridian, in the territory of Arizona

executed by Jesse B. Wright, U.S. deputy surveyor under his contract No. 145, dated April 15th 1907, ~~190~~, 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.

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.