

2159

4-679.

Book E.

BOOK 2159

MAY 3-1909

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Accepted letter E. May 4-1910.

FIELD NOTES

OF THE SURVEY OF THE

2159

East Boundary of T. 12 S. R. 21 E.

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Frac. West Boundary of T. 12 S. R. 21 E.

Re-survey,

Frac. South Boundary of T. 12 S. R. 21 E.

2159

Of the Gila & Salt River Base & Meridian,
Arizona.

AS SURVEYED BY

Jesse B. Wright, United States Deputy Surveyor,

Under his Contract No. 154, dated February 9, 1909

Survey commenced April 21, 1909

Survey completed April 30, 1909

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1351A

NAMES AND DUTIES OF ASSISTANTS.

Walter Percival Chainman

Santiago Verdola "

Antonio Torres Moundman

"

Silverio Perato Axeman

"

Prufugio Peches Flagman

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BOOK 2159

INDEX DIAGRAM.

Township 12 South, Range 21 East

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter Percival and Santiago Vindiola
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 Boundaries of Tp. 12 S. R. 21 E.

Walter Percival, Chainman.
Santiago Vindiola, Chainman.

Subscribed and sworn to before me this 21st
day of April, 1909



Jesse B. Wright
U. S. Deputy Surveyor

I, Antonio Torres jr
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 Boundaries of Tp. 12 S. R. 21 E.

Antonio Torres jr, Moundman.
Moundman.

Subscribed and sworn to before me this 21st
day of April, 1909



Jesse B. Wright
U. S. Deputy Surveyor

WE, Silverio Peratto 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 Boundaries of Tp. 12 S. R. 21 E.

Silverio Peratto, Axman.
Axman.

Subscribed and sworn to before me this 21st
day of April, 1909



Jesse B. Wright
U. S. Deputy Surveyor

I, Refugio Pacheco, 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 Boundaries of Tp. 12 S. R. 21 E.

Refugio Pacheco, Flagman.

Subscribed and sworn to before me this 21st
day of April, 1909



Jesse B. Wright
U. S. Deputy Surveyor

East Boundary of T. 12 S. R. 21 E.

Chains

Survey commenced April 21, 1909, and executed with a W. & L.E. Gurley light mountain transit, with Burt patent solar attachment, special make, unnumbered, the horizontal limb being provided with two double verniers placed opposite to each other and each reading to 1' of arc, which is also the least reading of the latitude and declination arcs.

I examine and test the levels, the standards, and line of collimation of the instrument and find same correct. I also examine and test carefully the polar axis, the solar lines and lenses, the declination and hour circle of the solar, which I find to be correct.

Finding all parts of the instrument in precise adjustment as to tests, then to test the solar apparatus by comparing the results of observations on the sun for meridian made during a.m., & p.m. hours, with a true meridian determined by Polaris observation; I proceed as follows:

At 4h p.m., l.m.t., at the cor. of Tps. 12 & 13 S. Rs. 21 & 22 E. which is a Volcanic rock 12x10 ins. x 8 ins. above ground marked and witnessed as described by the Surveyor General, I set off $11^{\circ}54'30''$ N. on the decl. arc and $32^{\circ}20'$ N. on the lat. arc and determine a meridian with the solar, and mark the meridian thus determined by a Tack in a stake driven in the ground 5 chs. N. of my station.

April 22, 1909, at 5h 35m a.m. I observe Polaris at E. Elong. in accordance with instructions in the "Manual", and mark the line thus determined by a cross on a stone firmly set in the ground 5 chs. N. of my station.

Then at 8h a.m., l.m.t., I set off the azimuth of Polaris $1^{\circ}23'$ to the West and mark the true meridian thus determined by a tack in the stake 5 chs. N. of my station which gives a line 0.20 ins. E. of the meridian determined by solar on preceding evening. Then I set off $32^{\circ}20'$ N. on the lat. arc and $12^{\circ}8'$ N. on the decl. arc and determine a meridian with the solar which meridian falls .25 ins. E. of the meridian determined by Polaris observation.

The solar apparatus by p.m. & a.m. observations defines positions for meridians about $11''$ W. & $13''$ E. respectively of the meridian established by Polaris observation. These errors being probably not more than the usual errors of observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h 15m a.m., l.m.t., is $N13^{\circ}20'W$. The angle thus determined gives the magnetic declination $13^{\circ}20' E$.

From this meridian I test the bearings from the cor. of Tps. 12 & 13 S. Rs. 21 & 22 E. as Given in the field notes as furnished by the Surveyor General, and find as follows;

"Old Baldy", Santa Rita Mountains, brs. S. $42^{\circ}59' W$.
A group of trees, on highest peak of Winchester Mts.
brs. N. $72^{\circ}11' E$. (Course given N. $72^{\circ}10' E$.)
Rincon Peak, brs. S. $55^{\circ}26' W$.

(Original course of S. $55^{\circ}58' W$, is 30' in error.)
This cor. being in a dilapidated condition and the mound of stone undersized, I rebuild a mound of stone 4 ft. base 3 ft. high S. of cor.

Thence I run, North, on a random line, setting temp $\frac{1}{2}$ cors. & sec. cors. at intervals of 40.00 & 80.00 chs.

At 6 miles, 2.70 chs. I intersect the South bdy. of T. 11 S. R. 22 E. at point 3.10 chs. E. of the Old cor. of Tps. 11 & 12 S. Rs. 21 & 22 E., which is a malpais stone 15x12 ins. x 8 ins. above ground and marked and witnessed as described by the Surveyor General. Cor. situated on top of a volcanic mountain extending N. & S.

East Boundary of T. 12 S. R. 21 E.

Chains	<p>As this cor. is in a very dilapidated condition and the markings almost obliterated, I re-mark the cor. stone with 6 notches on N., E., & W. edges, obliterate all traces of markings on S. edge so that the cor. will refer to the 2 North Tps. only and rebuild a mound of stone 3 ft. base 2 ft. high N. of cor. destroy original mound of stone which was on W. of cor. No bearings available.</p> <p>At the point 3.10 chs. E. of this cor. at the intersection of my random line from the S. Bdy. I Set a volcanic stone 30x15x12 ins. 10 ins. in the ground to bedrock in mound of stone and raise a mound of stone 3 ft. base 2 ft. high S. of cor., I mark, C.C. on S., with 6 grooves on S., E., & W. faces, from which, A juniper tree 18 ins. diam. brs. S. 40° E. 270 lks. dist. marked T. 12 S. R. 22 E. S. 6 C.C.B.T. A large dead juniper, a conspicuous landmark on NE. slope of the mtn. brs. N. 45° E. 250 lks. dist. unmarked.</p> <p>No other bearings available. Pits impracticable. From this Closing cor. I run, South, on a true line on E. bdy. of Tp. Bet. secs. 1 & 6. Over mts. land asc.</p>
5.00	Head of gulches in saddle, gulches to SW. & N E. Desc. on NW. slope.
32.00	Ridge, brs. WNW. & ESE. desc. S. slope.
42.70	Set a volcanic stone 24x12x8 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. No bearings available. Pits impracticable.
44.00	Canyon 50 lks. wide, 100 ft. deep, course WNW. asc. steep.
60.00	Top of ridge, brs. W. desc. precipitously
82.70	Set a volcanic stone 30x15x10 ins. 24 ins. in the ground for cor. of secs. 1, 6, 7 & 12, marked with 1 notch on N. & 5 notches on S. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available. Land mts. very rough. Soil, 2nd rate, stony, gravelly. Timber, scattering oak and juniper in canyons. Undergrowth, scattering oak, cacti. good, grazing. Mts. land exceptionally difficult to survey, 82.70 chs.
	South bet. secs. 12 & 7.
	Over mts. land desc.
8.00	Main canyon 4 chs. wide, 200 ft. deep, course WNW. asc. precipitously.
20.00	Long ridge, brs. WSW. & ENE. runs to low divide bet. mts. desc. steep.
40.00	Set a volcanic stone 20x10x8 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. No bearings available.
55.00	Canyon 50 lks. wide, 50 ft. deep, course W. asc. precipitously
64.00	Ridge, brs. W. & E. desc.
78.50	Canyon 3 chs. wide, course WNW. asc. steep.
80.00	I mark a volcanic boulder in place 3 ft. x 2 ft. x 2 ft. above ground with cross on top and 2 notches on N. & 4 notches on S. of cross, for cor. of secs. 12, 13, 7 & 18, and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available. At this cor. at noon, I set off 12° 11' N. on the decl. arc & obs. the sun on mer. Resulting lat. is 32° 23' 30" N. Land, mts. Soil, 3rd rate, stony. Timber oak & juniper in canyons. Undergrowth scrub oak, Good native grass. Water in main canyon. Mts. land exceptionally difficult to survey, 80.00 chs.

East Boundary of T. 12 S. R. 21 E.

Chains

South, between secs. 13 & 18.
Over mts. land asc. steep.

18.00 Rocky spur, brs. WNW. & ESE. desc.

22.00 Gulch 150 lks. wide, course NW. asc. precipitously through dense oak timber.

30.00 Leave oak timber.

40.00 Set a Volcanic stone 24x15x10 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.
No bearings available.

46.00 Ridge, brs. WNW. & ESE. desc. precipitously.

60.00 Bass Canyon 3 chs. wide, 200 ft. deep, course WNW.
Running water about 4 miners inches. apparently permanent.

80.00 Top of ridge, brs. WNW. & ESE.
Set a Volcanic stone 24x15x10 ins. 18 ins. in the ground for cor. of secs. 13, 24, 18, & 19, marked with 3 notches on N. & S. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
Land, mts. very rough.
Soil, 2nd rate, stony gravelly.
Timber, Oak, scattering juniper in canyons.
Undergrowth, same.
Mts. land exceptionally difficult to survey, 80.00 chs.
April 22, 1909.

April 23, 1909.
At 7h a.m., l.m.t., at the cor. above described,
I set off $32^{\circ} 22' 30''$ N. on the lat. arc and $12^{\circ} 28'$ N. on the decl. arc and determine a true meridian with the solar,

Thence I run,
South, bet. secs. 24 & 19.
Over mts. land desc.

17.00 Canyon 80 lks. wide, 50 ft. deep, course SW. asc.

26.00 Spur, brs. W. & E. desc. steep.

35.00 Main canyon, 2 chs. wide, 150 ft. deep, course W. asc. prec.

40.00 Set a Volcanic stone 24x15x10 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.
No bearings available.

41.00 Top of Main ridge, called Bald ridge, brs. N. 70° W. & S. 70° E. from Winchester mts. to termination in a butte about 2 miles NW.
desc. steep over very rough ground.

80.00 Set a Volcanic stone 28x12x10 ins. 20 ins. in the ground for cor. of secs. 24, 25, 19, & 30, marked with 4 notches on N. & 2 notches on S. edges and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
No bearings available.
Land mts. very rough.
Soil, 3rd rate, stony.
Timber, few oak in canyons.
Undergrowth, scrub oak, yucca. Good native grass 1st $\frac{1}{2}$ mile.
Mts. land exceptionally difficult to survey, 80.00 chs.

South, bet. secs. 25 & 30. Over mts. land desc.

.50 Gulch 50 lks. wide, course SW.

20.00 Foot of main slope of mtn. desc. over broken ground on 15° slope.

28.50 Canyon 150 lks. wide, 100 ft. deep, course WSW. asc.

35.00 Rocky spur, course WSW. desc. abrupt.

40.00 Set a Volcanic stone 24x15x10 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.
No bearings available.

East Boundary of T. 12 S. R. 21 E.

Chains	
42.00	Canyon 2 chs. wide, 200 ft. deep, course WSW. asc. abrupt.
48.00	Top of rim, asc. along NW. slope.
74.00	Top of ridge, brs. WSW. desc.
80.00	Set a Volcanic stone 24x15x12 ins. 18 ins. in the ground for cor. of secs. 25,30,31 & 36, marked with 5 notches on N. & 1 notch on S. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. No bearings available. Land mts. Soil, Stony, gravelly. Timber, few oak in canyons. Undergrowth, Few mesquite, yucca, paloverde, cacti. Mts. land exceptionally difficult to survey 80.00 chs. At this cor. at noon, I set off 12° 31' N. on the decl. arc and observe the sun on the meridian, The resulting lat. is 32° 21' N. /
	South, bet. secs. 36 & 31. Over mts. land desc. steep.
14.00	Gulch, 80 lks. wide, course SW. asc. steep.
19.00	Spur, brs. SW. desc.
22.00	Near head of gulch, 20 lks. wide, course SW. asc.
38.00	Top of ridge, brs. SW. & NE. desc.
40.00	Set a Volcanic stone 28x12x8 ins. 21 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. No bearings available.
46.00	Gulch 30 lks. wide, course SW. asc. NW. slope.
72.00	Top of ridge, brs. SW. & NE. desc. SE. slope.
80.00	To cor. of Tps. 12 & 13 S. Rs. 21 & 22 E. as already described. Land mts. Soil, 2nd rate, stony gravelly. No timber. Undergrowth, scattering mesquite, yucca, cacti. Mts. land exceptionally difficult to survey, 80.00 chs. April 23, 1909.

Frac. W. Boundary of T. 12 S. R. 21 E.

Chains.

April 24, 1909.

I again examine and test the adjustments of my transit and solar apparatus and find same in precise adjustments.

I begin at the cor. of Tps. 12 & 13 S. Rs. 20 & 21 E., which is a granite stone 9x9 ins. x 8 ins. above ground marked and witnessed as described by the Surveyor General.

At this cor. at 7h a.m., l.m.t., I set off 12° 48' N. on the decl. arc and 32° 20' N. on the lat. arc and determine a true meridian with the solar.

Thence I run, as per instructions,

North, bet. secs. 31 & 36.

Over mts. land asc. SE. slope.

3.00 Wash 20 lks. wide, course NE.

5.80 Ridge, brs. NE. & SW. desc.

11.00 Enter flat, dense mesquite and cottonwood.

12.30 Wash 30 lks. wide, course NW.

19.50 Enter wash of Hot Springs Canyon, course NW.

23.00 Leave " " " " " "

23.17 Wire fence, brs. NW. & SE.

29.20 " " " NW. & SE.

An alfalfa field contains about 2 acres is 5 chs. E.

31.45 Wire fence, brs. E. & W.

34.00 Begin steep asc. of SW. slope. leave dense mesquite & flat.

38.50 Gulch 20 lks. wide, course W.

40.00 Set a porphyry stone 24x15x8 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.

No bearings available.

42.00 Point of ridge brs: SW. & NE. desc. NW. slope.

50.00 Point of rocky spur, brs. NW. desc. precipitously.

52:00 S. rim of Bass Canyon, across which I cannot chain, So I set a flag on opposite rim and measure a base line of 3 & 4 chs. to the East., turning 90° from my flag on opposite rim, longer base impracticable. At 3 chs. on base, angle to flag is 69° 34', the tang. of which is 2.684 which x by base, 3 chs. gives 8.052 chs. to N. flag.

At 4 chs. on base, the angle to N. flag is 63° 35', the tang. of which is 2.013 which x by 4 chs., the base, gives 8.052 chs. to N. flag., thus checking my triangulations. 8.052 chs. added to 52.00 chs. gives

60.05 To N. flag on N. rim of Canyon, at about

56.00 chs. is centre of Bass Canyon, with precipitous walls 200 ft. high. Course WSW.

Running water in canyon about 8 miners inches.

Small irrigation ditch is on S. side of canyon.

From flag, asc. along broken W. slope.

68.00 Spur, brs. SW. & NE. desc. NW. slope of same.

75.00 Top of ridge, brs. SSE. & NNW. desc. steep on same.

80.00 Set a quartzite stone 24x15x12 ins. 18 ins. in the ground for cor. of secs. 30, 31, 25 & 36, marked with 1 notch on S. & 5 notches on N. edges and raise a mound of stone 3 ft. base 2 ft. high W. of cor. from which, A cedar tree 20 ins. diam. brs. S. 60° W. 206 lks. dist. marked T. 12 S. R. 20 E. S. 36 B.T.

No other bearings available. Pits impracticable.

Land mts.

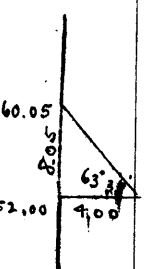
Soil, Stony, gravelly, sandy, 2nd & 3rd rate.

Timber, cottonwood, sycamore, mesquite in canyons.

Undergrowth, dense mesquite, in canyons, paloverde.

Mts. land or land covered with dense undergrowth and

Exceptionally difficult to survey, 80.00 chs.



Frac. West Boundary of T. 12 S. R. 21 E.

Chains

- North, bet. secs. 30 & 25.
Over mts. land asc. steep.
- 7.00 Top of high rocky ridge, brs. SSE. & NNW.
Cont. desc. along rocky E. slope.
- 10.00 Canyon 50 lks. wide, course SE.
- 11.00 Same canyon, course SW. Thence along W. side of same.
- 17.50 Wire fence, brs. NW. & SE.
- 19.00 Same canyon as aboe, brs. SSE. asc. steep SW. slope.
- 35.00 Top of divide, brs. E. & W. Low gap in same is 2 chs. W.
Desc. on NW. slope.
- 40.00 Set a granite stone 24x12x8 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. from which,
A mesquite tree 6 ins. diam. brs. S. 76° E. 88 lks. dist.
marked $\frac{1}{4}$ S. 30 B.T.
A cedar tree 8 ins. diam. brs. S. 47° W. 69 lks. dist.
marked $\frac{1}{4}$ S. 25 B.T.
- 43.00 Enter gulch, 50 lks. wide, course N. desc. in same.
- 53.00 Leave gulch runs NW. asc. SW. slope.
- 78.00 Top of high ridge, brs. SSE. & NNW. Iron outcroppings,
local attraction of needle, Var. at this point 15° E.
- 80.00 Set a volcanic stone 24x15x10 ins. 18 ins. in the ground
for Cor. of secs. 19, 30, 24 & 25, marked with 2 notches
on S. & 4 notches on N. edges and raise a mound of
stone 4 ft. base $2\frac{1}{2}$ ft. high W. of cor.
No bearings available. Pits impracticable.
At this cor. at 11h 58' A.M., l.m.t., I set off 12° 51'
N. on the decl. arc and observe the sun on the meridian.
The resulting lat. is 32° 21' 30" N. ✓
Here I discontinue the survey of this line.
Land, mts. Soil, 3rd rate., stony.
Timber, few cedar. Undergrowth, mesquite, cedar, paloverde.
Mts. land exceptionally difficult to survey 80.00 chs.

General Description.

The East Boundary of This Tp. is over very rough broken land ascending over a succession of ridges from the SE. cor. of Tp. to the high ridge $2\frac{1}{2}$ miles North, trend of ridges is S. of W.

From this high ridge it descends over a succession of ridges, crossing a number of canyons with precipitous walls, to the low divide noted on plat, from which the drainage is northerly.

There is some oak and juniper timber in the main canyons. The long grassy ridges extending to the West are covered with a fine growth of native grass.

There is but little water on this line, though the pasturage is good, and water could be developed.

The country is wild and unsettled or traveled and wild game such as deer and antelope are plentiful.

From the cor. of secs. 24 & 25 on this E. bdy. a small goat ranch brs. N. about $\frac{1}{2}$ mile

The rock formation is almost entirely Volcanic.

The frac. W. bdy. of this Tp. is very broken and rough, ascending continuously from the valley of Hot Springs ca Canyon, which runs continuously about 8 miners inches of water. Bass Canyon also has a yearly flow of fine water. The rock formation is mostly a barren Volcanic outflow, through which the canyons have worn deep, uncovering granite and porphyry in places.

April 24, 1909.

Jose B. Wright
U.S. Deputy Surveyor.

Re-survey of part of S.bdy., T.12 S.R.21 E.

Chains April 30, 1909.

From my closure on the W. bdy. of Tp. of the line bet. secs. 30 & 31, there is evidently an error in the E. & W. lines on the N. or S. Bdy. of sec. 31. I retrace the N. & E. bdy. of this sec. as run by me and finding same correct, test the W. bdy. for alinement, and find same correct, Therefore to close this section properly & to locate the error, I find it necessary to resurvey the South bdy. of sec. 31.

I begin therefore at the cor. of Tps. 12 & 13 S. Rs. 20 & 21 E., SW. cor. of Tp. At this cor. at 2 1/2 p.m., l.m.t., I set off 14° 47' N. on the decl. arc and 32° 20' N. on the lat. arc and determine a true meridian with the solar, Thence I run, East, on S. bdy. sec. 31. Over mts. land desc.

- 12.70 Wash, 60 lks. wide, course N. asc.
- 18.00 Begin steep asc.
- 24.75 Top of rough rocky ridge, brs. N. & S, Small field at NW.pt. Desc. steep, very rough.
- 36.50 Gulch 20 lks. wide, course N. asc. steep.
- 39.00 Top spur, brs. N. & S. desc. steep. Small field is 5 chs. N. (Topography does not compare with orig. notes)
- 40.17 1/4 sec. cor. on line marked and witnessed as described by the Surveyor General. I rebuild the mound of stone which is dilapidated and continue East.
- 41.00 Foot of steep slope, Enter dense cottonwood, & mesquite.
- 43.00 Wash 80 lks. wide, course NW.
- 44.00 Road, brs. SSE. & NNW.
- 45.00 Wire fence, brs. NW. & SE.
- 46.20 Enter wash of Hot Springs Canyon, course NW.
- 50.00 Leave same wash. Wire fence, brs. NW. & SE.
- 52.60 Corral fence, circular.
- 55.00 Leave corral.
- 56.30 Wire fence, brs. NW. & SE. Leave valley of Hot Springs canyon, brs. NNW. & SSE. asc.
- 64.40 Road, brs. NE. & SW. point of ridge, brs. NE. & SW. desc.
- 73.00 Gulch 30 lks. wide, course SW. asc.
- 80.10 Cor. of secs. 31, 32, 5 & 6, brs. S. 6 lks. dist. Course of this last 1/2 mile is S. 89° 55' E. 39.93 chs. It is evident that in the original survey of this mile an error of about 50 lks. was made in the last 1/2 mile to the west. Cor. is marked as desc. by Sur. General. Land, mts. broken. Soil, 1st, 2nd, 3rd rate, loamy, sandy, stony. Timber, Cottonwood, walnut, sycamore, in canyons. Undergrowth, dense mesquite, tesseta, in valley. Mountainous land or land covered with dense undergrowth and exceptionally difficult to survey, 80.10 chs. April 30, 1909.

Jesse B. Wright
U.S. Deputy Surveyor.

BOOK 2159

For authority for red ink corrections
see Deputy's letter of May 14-1907.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

2, 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

Boundaries of Tp. 12. S. R. 21. E.

showing the respective capacities in which they acted:

Walter Percival, Chainman.

Santiago Vindiola, Chainman.

Antonio Torres Jr, Moundman.

Silverio Peraltis, Moundman.

Refugio Pacheco, Axman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Jesse B. Wright

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

East and Trac West of South Boundaries of Tp. 12. South, R. 21 East

of the Gila & Salt River Base & meridian, Terr 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

Walter Percival, Chainman.

Santiago Vindiola, Chainman.

Antonio Torres Jr, Moundman.

Silverio Peraltis, Moundman.

Refugio Pacheco, Axman.

Subscribed and sworn to before me this 30th

day of April, 1909



Jesse B. Wright
U.S. Deputy Surveyor.

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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 9th day of February, 1909, 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

East and from West & South
Boundaries of Sp. 12 South
Rq. 21 East.

of the Gila & Salt
River Base & meridian, in the Terr 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 10th day of May, 1909

W. H. McCombs



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Thomas C. King, June 20, 1910
1909

The foregoing field notes of the survey of the East boundary, from
West boundary, and survey of a portion of South
boundary of Sp. 12/2 R. 21 E. Gila
and Salt River Base and Meridian, Arizona

executed by Jesse B. Wright, U.S. Deputy Surveyor
under his contract No. 154, dated February 9, 1909, 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.