Accepted and ordered filed by Department Letter "E" dated Dec. 11, 1909.

203

4—679.

APR 21 1909

(1)

Book B.

2127 BOOK 2127

FIELD NOTES

OF THE SURVEY OF THE

2127 Subdivision of Frac. T. 19 S. R. 11 E. 2127

2127

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 9th, 1909

Survey commenced April 3, 1909

Survey completed April 8 1909

6—151

2127

2127 2127

204
(1A)

BOOK 2127

NAMES AND DUTIES OF ASSISTANTS.

Jesse N Benson	Chainman.
Walter Percival	Chainman.
	Moundman.
	Moundman.
Andrew F. Davidson	Axeman.
	Axeman.
Alexandro Cruz	Flagman.

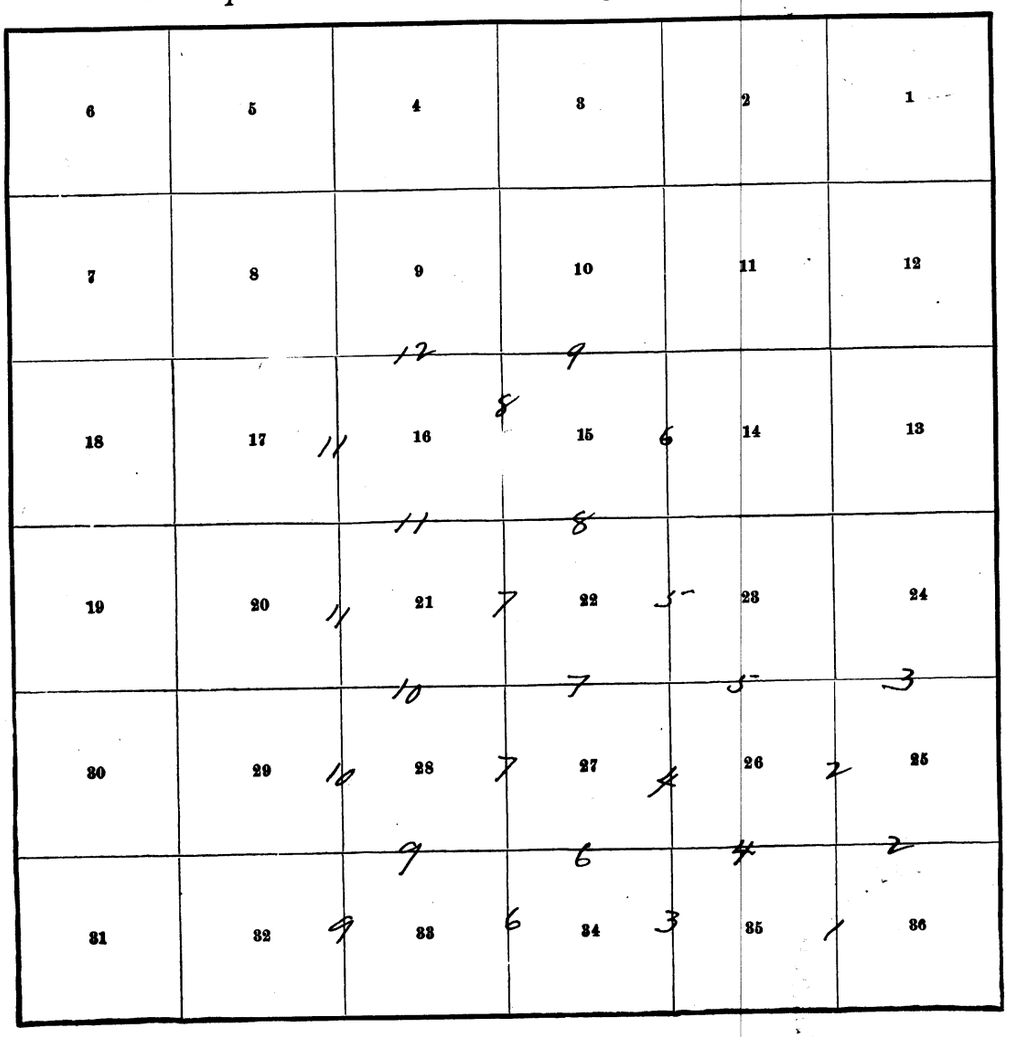
6—151

205
(13)

BOOK 2127

INDEX DIAGRAM.

Township 19 South, Range 11 East



*Meanders Page*_____

206

(1C) BOOK 2127

PRELIMINARY OATHS OF ASSISTANTS.

WE, Jesse N. Benson and Walter Perceval,
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
Frac. Subdivision of T 19 S. R 11 E.

Jesse N Benson, *Chainman.*
Walter Perceval, *Chainman.*

Subscribed and sworn to before me this 29th day of March, 1909
my com. exp. apr. 22- 1909

SEAL

J. W. Purcell
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
~~Frac. Subdivision of T. 19 S. R. 11 E.~~

_____, *Moundman.*
_____, *Moundman.*

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

SEAL

_____

WE, Andrew F. Denniston 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
Frac. Subdivision of T. 19 S. R 11 E.

Andrew F Denniston, *Axman.*
_____, *Axman.*

Subscribed and sworn to before me this 29th day of March, 1909
my com. exp. apr. 22- 1909

SEAL

J. W. Purcell
Notary Public

I, Alexandro Cruz, 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 Frac. Subdivision of T. 19 S. R 11 E.

Alexandro Cruz, *Flagman.*

Subscribed and sworn to before me this 1st day of April, 1909

SEAL

Jesse B. Wright
U.S. Dep. Surveyor

6—151
No Notary available

Survey commenced April 3, 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 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 secs. 1, 2, 35 & 36 on S. bdy. of Tp. which is a malapais stone marked and witnessed as described by the Surveyor General,

I set off 5° 22' N. on the decl. arc and 31° 43' 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.

At 6h 40m p.m., l.m.t., I observe Polaris at W. 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.

April 4, 1909, at 8h a.m., l.m.t., I set off the azimuth of Polaris 1° 23' to the E. and mark the true meridian thus determined by a tack in the stake 5 ch 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 31° 43' N on the lat. arc and 5° 27'/58 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 16m a.m., l.m.t., is N.13° 35' W. The angle thus determined gives the magnetic declination 13° 35' E.

From this corner I run,
as per instructions,
N. 0° 01' W.
bet. Secs. 35 & 36.

Over rolling land, desc. grad. through scattering mesquite.

14.20 Dry wash 20 lks. wide, course E.
18.40 Dry wash 20 lks. wide, course E.
19.00 Asc. abrupt 20 ft.
28.00 Begin grad. desc.
40.00 Set a granite stone 24x10x8 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. from which,
a mesquite tree 4 ins. diam. brs. S.52° E. 44 lks. dist. marked ¼ S.36 B.T.
A mesquite tree 4 ins. diam. brs. N.87° W. 142 lks. dist. marked ¼ S. 35 B.T.
Thence through dense mesquite.
43.50 Desc. abrupt 40 ft. enter valley of wash.
44.00 Dry wash 80 lks. wide, course E.
52.00 Asc. abrupt 20 ft. leave valley of wash.

Subdivision of T. 19 S. R. 11 E.

Chains

75.00 Dry wash 40 lks. wide, course E.
80.00 Set a malapais stone 20x12x8 ins. 15 ins. in the ground for cor. of secs. 25,26, 35 & 36 marked with 1 notch on S. & E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which,
A mesquite tree 6 ins.diam.brs.N.25° 50'E. 133 lks.dist. marked T. 19 S. R. 11 E. S. 25. B.T.
A mesquite tree 10 ins.diam.brs.S.70° 50'E.217 lks.dist. marked T. 19 S. R. 11 E. S. 36 B.T.
A mesquite tree 6 ins.diam. brs.S.50° 30'W.130 lks.dist. marked T. 19 S. R. 11 E. S. 35 B.T.
A mesquite tree 4 ins.diam.brs.N.48° 40'W. 65 lks.dist. marked T. 19 S. R. 11 E. S. 26 B.T.
Land rolling,
Soil, 2nd & 3rd rate, gravelly sandy.
Timber, mesquite.
Undergrowth, mesquite, tesseta. dense last 1/2 mile.
Rolling land 40.00 chs.
Land covered with dense undergrowth 40.00 chs.

East on a random line bet. secs. 25 & 36
40.00 Set temp. ¼ sec.cor.
79.70 Intersect E. bdy. of Tp. at point 9 lks. N. of cor. of secs. 25,36, 30 & 31, whence I run
N. 89° 56' W. on a true line bet. secs. 25 & 36
Over rolling land through dense mesquite.
6.70 Dry wash 20 lks. wide, course S.E. asc. grad.
22.70 Top of ridge brs. SE. & NW. desc. grad.
33.20 Dry wash 40 lks. wide, course S. asc. grad.
39.85 Set a malapais stone 24x12x10 ins. 18 ins. in the ground for 1/4 sec.cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. from which,
A mesquite tree 6 ins.diam.brs.S.70° 30' W. 73 lks.dist. marked 1/4 S. 36 B.T.
No other bearings available.
This cor. is on SE. point of low ridge.
Thence grad. desc.
42.90 Dry wash 40 lks. wide, course S. asc. grad.
51.70 Top of ridge, brs. SE. & NW. desc. grad.
75.70 Dry wash 30 lks. wide, course S. asc. grad.
79.70 To cor. of secs. 25,26, 35 & 36.
Land rolling,
Soil, 2nd & 3rd rate, sandy, gravelly.
Timber, scattering mesquite.
Undergrowth, dense mesquite, tesseta.
Rolling land covered with dense undergrowth 79.70 chs.

N.0° 01' W. bet. secs. 25 & 26.
Over rolling land asc.grad. through dense mesquite.
4.00 Asc. steep 20 ft.
40.00 Set a granite stone 24x12x8 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.
No bearings available. From this cor. asc. grad.on mesa.
55.20 Road, brs. NW. & SE.
58.00 Desc.abrupt 40 ft. thence in valley of wash, through very dense mesquite.
76.00 Main wash 2 chs. wide, course SE. asc. grad.
80.00 Set a granite stone 18x12x10 ins. 12 ins. in the gorund for cor. of secs. 23,24,25 & 26 marked with 2 notches on S. & 1 notch on E. edges from which,
A mesquite tree 6 ins.diam.brs.N.82° E. 228 lks.dist. marked T. 19 S. R. 11 E. S. 24 B.T.
A mesquite tree 4 ins.diam.brs.S.21° 30'E.127 lks.dist. marked T. 19 S. R. 11 E. S. 25 B.T.
A mesquite tree 6 ins.diam.brs.S. 5° 20'W. 63 lks.dist. marked T. 19 S. R. 11 E. S. 26 B.T.
A mesquite tree 6 ins.diam.brs.N.87° 40'W.195 lks.dist. marked T.19 S.R. 11E.S.23 B.T.

Chains	
	Land, rolling.
	Soil, 2nd & 3rd rate, gravelly, sandy.
	Timber, scattering mesquite.
	Undergrowth, dense mesquite, tesseta.
	Rolling land covered with dense undergrowth 40.00 chs.
	Rolling land covered with dense undergrowth and exceptionally difficult to survey, 40.00 chs.
	At this last described cor. at noon I set off 5° 41' N. on the decl. arc and observe the sun on the mer. The resulting lat. is 31° 45' N.
	Thence I run,
	S. 89° 56' E. on a random line bet. secs. 24 & 25.
40.00	Set temp. 1/4 sec.cor.
79.64	Intersect E. bdy. of Tp . at point 2½lks. N. of cor. of secs. 24 ,25, 19 & 30, whence I run,
	N. 89° 55' W. on a true line bet. secs. 24 & 25.
	Over rolling land through dense mesquite. desc.grad.
7.00	Dry wash 30 lks. wide, course S.
12.00	Dry wash 30 lks. wide, course SE., thence in valley of same.
22.00	Asc. grad.
30.00	Top of ridge, brs. SE. & NW. desc. grad.
39.82	Set a granite stone 20x15x10 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.
	No bearings available.
44.00	Dry wash 10 lks. wide, course SE. asc. grad.
50.00	Top of ridge, brs. SE. & NW. desc. grad.
56.80	Dry wash 20 lks. wide, course SE. asc. grad.
60.00	Top of ridge brs. SE. & NW. desc. grad.
68.80	Dry wash, 40 lks. wide, course S. asc. grad.
72.00	Desc. along S. slope of ridge extends S.
79.64	To cor. of secs. 23,24,25 & 26.
	Land rolling .
	Soil, 2nd & 3rd rate, sandy, gravelly.
	Timber, scattering mesquite.
	Undergrowth, dense mesquite, tesseta. good native grass.
	Rolling land covered with dense undergrowth 79.64 chs.
	From the cor. of secs. 2-3-34 & 35 on the S. bdy. which is a malapais stone 6x10x12 ins above ground, marked & witnessed as described by the Surveyor General Irun.
	N. 0° 01' W. bet. secs. 34 & 35
	Over mts. land desc. through scattering mesquite.
21.00	Desc. abrupt 20 ft.
21.75	Dry wash 25 lks. wide, course N.N.E.
26.00	Dry wash 30 lks. wide, course NE.
27.00	Asc. abrupt 20 ft.
40.00	Set a malapais stone 24x12x8 ins. 18 ins. in the ground for 1/4 sec.cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	No bearings available.
	This cor. is on top of flat ridge extending SE. & NW.
50.00	Desc. steep
54.00	In valley of wash.
62.00	Dry wash 20 lks. wide, course NE. asc. grad.
75.00	Top of ridge; brs. E. & W. desc. steep.
80.00	Set a malapais stone 30x12x8 ins. 24 ins. in the ground for cor. of secs. 26,27,34 & 35, marked with 1 notch on S. & 2 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	No bearings available.
	Land mts.
	Soil, 2nd & 3rd rate. stony, sandy, gravelly.
	Timber, mesquite.
	Undergrowth scattering mesquite.
	Mountainous land,80.00 chs.

Subdivision of T. 19 S. R. 11 E.

Chains	
	East on a random line bet. secs. 26 & 35.
40.00	Set temp. 1/4 sec.cor.
79.90	Intersect N. & S. line ap point 9 lks. N. of cor. of secs.25,26,35 & 36, whence I run, N. 89°56' W. on a true line bet. secs. 26 & 35. Over mts. land through dense mesquite.
5.00	Enter valley of wash.
10.50	Dry wash 30 lks. wide, course S. 80° E.
20.00	Asc.
30.50	Desc. abrupt 25 ft. to wash. course SE.
39.95	Cor. point for ¼ sec.cor. in wash.
40.50	Centre dry wash same as above
42.50	Leave wash, course E.& asc. abrupt 30 ft.
44.00	Top of bank, at this point I Set a granite stone 20x10x8 ins. 15 ins. in the ground for Witness cor. to ¼ sec.cor. marked W.C. ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. from which, a tesseta tree 6 ins.diam. brs.N.59° E.75 lks.dist. marked ¼ S.26 W.C.B.T. No other bearings available.
62.00	Asc. abrupt 50 ft.
68.00	Top. End of ridge, brs. E. & W. Thence on N. slope of same.
79.90	To cor. of secs. 26,27,34 & 35. Land mountainous. Soil, 3rd rate, stony gravelly. Timber, scattering mesquite. Undergrowth , dense mesquite, tesseta. Mountainous land covered with dense undergrowth, and exceptionally difficult to survey, 79.90 chs. April 4,1909.
	April 5,1909 , at 7h a.m.,l.m.t., at the cor. of secs. 26,27,34 & 35, I set off 6°0'N on the decl. arc and 31°44' N. on the lati. arc and determine a true mer. with the solar, thence I run, N.0° 01' W. bet. secs. 26 & 27. Over mts. land, through scattering mesquite. desc.
2.00	Dry wash 40 lks. wide, course E.
3.50	Asc. steep 80 ft.
5.00	Asc. abrupt 45 ft.
7.00	Top of ridge, brs. E. & W. desc.
18.00	Desc. steep.
18.50	Dry wash, 120 lks. wide, course S.E.
21.00	Asc. steep.
23.00	Top of mesa. desc. grad.
38.50	Desc. abrupt 20 ft.
39.00	In bend of Dry wash 120 lks. same as above, course SW.
40.00	Point for ¼ sec.cor. falls in E. edge of above wash, from N.W.
40.60	Set a granite stone 24x12x8 ins. 18 ins. in the ground for witness cor. to ¼ sec.cor. marked W.C.¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which; A mesquite tree 6 ins.diam.brs.S.66°E. 11 lks. dist. marked 1/4 S.26 W.C.B.T. A mesquite tree 6 ins.diam.brs.N.50° W.33 lks.dist. marked 1/4 S.27 W.C.B.T.
45.00	Asc. abrupt 20 ft.
49.00	Dry wash 120 lks. wide, course S.W.
54.00	Same wash " " " SE.
58.00	" " " " " W. Thence asc. along E. slope.
80.00	Set a granite stone 24x10x8 ins. 18 ins. in the ground for cor. of secs. 22,23,26 & 27, marked with 2 notches on S. & E. edges and raise of stone 2 ft. base 1½ ft. high W. of cor. from which,

Chains	
	a mesquite tree 12 ins.diam.brs.N.89° E.207 lks.dist. marked T. 19 S. R. 11 E. S. 23 B.T.
	A mesquite tree 10 ins.diam.brs.S.68° 40' E. 179 lks.dist. marked T. 19 S. R. 11 E. S. 26 B.T.
	A mesquite tree 14 ins. diam. brs. S.40° 20' W.124 lks.dist. marked T. 19 S. R. 11 E. S. 27 B.T.
	A mesquite tree 12 ins.diam.brs.N.13° 30' W. 84 lks.dist. marked T. 19 S. R. 11 E. S. 22 B.T.
	Land mts.
	Soil, 2nd & 3rd rate? gravelly.
	Timber, scattering mesquite.
	Undergrowth, mesquite, tesseta. good native grass.
	Mountainous land, very broken, 80.00 chs.
	S. 89° 56' E. on a random line bet. Secs. 23 & 26.
40.00	St temp. ¼ Sec.cor.
79.90	Intersect N. & S. line at point 2 lks. S. of cor. of secs. 23,24,25 & 26, whence I run
	N. 89° 57' W. on a true line bet. Secs. 23 & 26,
	Over rolling land desc. grad.
14.50	Dry wash, 180 lks. wide, course SE. asc. grad.
30.00	Top of ridge, course S. desc. grad.
38.00	Dry wash, 60 lks. wide, course SE. asc.
39.95	Set a granite stone 24x12x8 ins. 18 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.
	No bearings available.
42.50	Road, brs. SE. & NW.
43.00	End of ridge, brs. SE. & NW. desc. grad.
48.00	Dry wash 20 lks. wide, course SE. asc. grad.
64.00	Top of [illegible] ridge, brs. SE. & NW. desc. steep.
69.00	In valley of wash.
73.80	Dry wash 2 chs. wide, course S.
78.00	Asc. abrupt 20 ft. leave valley of wash.
79.90	To cor. of secs. 22 ,23,26 & 27.
	Land, rolling.
	Soil, Sandy, gravelly 2nd rate.
	No timber.
	Undergrowth, scattering mesquite, good native grass.
	Rolling land, 79.90 chs.
	N. 0° 01' W. bet. secs. 22 & 23.
	Over mts. land, asc. grad. through scattering mesquite .
20.20	Road, brs. NW. & SE.
25.50	Desc. abrupt 20 ft.
28.50	Dry wash 160 lks. wide, course SE. asc.
40.00	Set a limestone 20x12x8 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. from which,
	A mesquite tree 6 ins. diam.brs.S.48° W.152 lks.dist. marked 1/4 S. 22 B.T.
	No other bearings available.
51.50	Dry wash 35 lks. wide, course S.20° W.
	Asc. grad.
80.00	Set a quartzite stone 24x16x12 ins. 18 ins. in the ground for cor. of secs. 14,15,22 & 23 marked with 5 notches on S. & 2 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	from which,
	A mesquite tree 16 ins.diam.brs.N.16° 20' E. 78 lks.dist. marked T. 19 S. R. 11 E. S. 14 B.T.
	A mesquite tree 6 ins.diam.brs.S.65° 45' E. 200 lks.dist. marked T. 19 S. R. 11 E. S. 23 B.T.
	No other bearings available.
	Land mts. Soil,2nd & 3rd rate, gravelly. Timber, Mesquite , Undergrowth, scattering mesquite, native grass.
	Mountainous land, 80.00 chs.

Chains	
	N.0° 01' W. bet. secs. 14 & 15.
	Over mts. land desc. grad. through scattering mesquitte.
31.50	Dry wash 25 lks. wide, course S.W. asc. grad.
40.00	Set a quartzite stone 24x12x8 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. No bearings available.
49.00	Desc. steep.
50.20	Dry wash 40 lks. wide, course SW. asc.
80.00	Set a granite stone 24x15x10 ins. 18 ins. in the ground for cor. of secs. 10,11,14 & 15, marked with 4 notches on S. & 2 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.
	Land mountainous.
	Soil, 2nd rate, sandy, gravelly.
	Timber, scattering mesquite.
	Undergrowth scattering mesquite, good native grass.
	Mountainous land 80.00 chs.
	At this cor. at noon, I set off 6° ~~04'~~ 02' N. on the decl. arc and observe the sun on the meridian. The resulting lat. is 31° 47' N. ✓

From the cor. of secs. 3-4-33 & 34 on the S. bdy. which is a granite stone 6x8x10 ins. above ground, marked & witnessed as described by the Sur. Genl.

	N.0° 02' W. bet. secs. 33 & 34.
	Over mts. land asc. grad.
10.00	Top of flat ridge, brs. S.80° E.
25.00	Desc. grad.
40.00	Set a malapais stone 15x12x6 ins. 10 ins. in the ground for 1/4 sec.cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.
46.00	Desc. abrupt. 40 ft.
47.00	Dry wash, 40 lks. wide, course E.
48.00	Asc. steep.
55.00	Top of steep asc. thence asc. grad.
75.50	Dry wash 30 lks. wide, course S. 80° E. asc. steep.
80.00	Set a malapais stone 18x12x8 ins. 12 ins. in the ground for cor. of secs.33,34,27 & 28, marked with 1 notche on S. & 3 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.
	Land mts.
	Soil, gravelly, sandy 2nd & 3rd rate.
	No timber. Undergrowth, scattering mesquite, native grass.
	Mountainous land 80.00 chs.

	East on a random line bet. secs. 27 & 34.
40.00	St temp. ¼ sec.cor.
79.94	Intersect N. & S. line at point 5 lks. N. of cor. of Secs. 26,27,34 & 35, whence I run, N.89° 58' W. on a true line bet. secs. 27 & 34.
	Over mts. land, asc. grad. on N. slope.
19.00	Desc. abrupt 35 ft.
21.00	Enter wash, 160 lks. wide, course N. 80° E.
23.00	Leave wash to N. of line. asc. grad.
39.97	Set a malapais stone 24x12x12 ins. 18 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. No bearings available.
60.00	Top of ridge, brs. S. 80° E. & N.80° W. desc. on S. slope of same.
79.94	To cor, of secs. 27,28,33 & 34.
	Land mountainous.
	Soil, 2nd & 3rd rate, sandy, gravelly, stony.
	No timber. Undergrowth, scattering mesquite, Ocotillo.
	Mountainous land 79.94 chs.

April 5,1909.

Chains	
	April 6,1909, at 7h a.m.,l.m.t., at the cor. of secs. 27,28,33 & 34, I set off 6° 23' N. on the decl. arc. and 31° 44' N. on the lat. arc and determine a true meridian with the solar, thence I run, N.0° 02' W. bet. secs. 27 & 28.
	Over mts. land asc.
3.50	Top of ridge, brs. N.80° E. & S.80° W. desc. steeply.
16.50	Gulch 50 lks. wide, course East. asc. steeply.
29.00	Top of ridge, brs. E. & W.
30.00	Desc. steeply.
38.00	Dry wash 35 lks. wide, course E. asc. steeply.
40.00	Set a malapais stone 24x12x8 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. from which,
	A palo-verde tree 8 ins.diam.brs.N.48° E. 11 lks.dist. marked 1/4 S. 27 B.T.
	A palo-verde tree 8 ins.diam.brs.S.72° W. 200 lks.dist. marked 1/4 S. 28 B.T.
48.00	Top of ridge, brs. N. 80° E. & S. 80° W. desc. steeply.
64.80	Dry wash 50 lks. wide, course S.80° E. asc. steeply.
68.00	Top of bank thence asc. grad.
80.00	Set a malapais stone 24x15x8 ins. 18 ins. in the ground for cor. of secs. 21,22, 27 & 28 marked with 2 notches on S. & 3 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which,
	a palo-verde tree 6 ins.diam.brs. S.84° E. 85 lks.dist. marked T. 19 S. R. 11 E. S. 27 B.T.
	No other bearings available.
	Land mountainous, very rough.
	Soil, 2nd & 3rd rate, stony gravelly.
	No timber.
	Undergrowth, mesquite, paloverde, native grass.
	Mountainous land exceptionally difficult to survey 80.00 chs.
	S. 89° 58' E. on a random line bet. secs.22 & 27
40.00	Set temp. 1/4 sec.cor.
79.96	Intersect N. & S. line at point 5 lks. S. of cor. of secs. 22,23,26 & 27, whence I run,
	West on a true line bet. secs. 22 & 27.
	Over mts. land asc.
10.00	Top of ridge, S. & N. desc.
19.00	Gulch 20 lks. wide, course S.W. asc.
27.00	Top of ridge, brs. S. & N. desc.
34.50	Dry wash 30 lks. wide, course S. asc.
39.98	Set a granite stone 24x15x10 ins. 18 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. from which,
	a mesquite tree 6 ins.diam.brs.N.31° E.58 lks.dist. marked ¼ S. 22 B.T.
	A mesquite tree 10 ins. diam.brs.S.2° E. 101 lks.dist. marked ¼ S. 27 B.T.
65.00	Main wash 140 lks. wide, course SE. asc. steeply.
70.00	Asc. grad.
79.96	To cor. of secs. 21,22,27 & 28.
	Land mountainous.
	Soil, 2nd & 3rd rate, sandy gravelly.
	No timber.
	Undergrowth, scattering mesquite, good native grass.
	Mountainous land 79.96 chs.
	N.0° 02' W. bet. secs. 21 & 22
	Over mts. land asc.
5.00	Top of ridge, brs. E. & W. desc.
19.00	Dry wash 45 lks. wide, course SE. asc.
25.00	Top of [illegible] ridge, brs E. & W.
37.00	Desc. abrupt 25 ft.

Chains

40.00 Set a granite stone 24x12x12 ins. 18 ins. in the ground for 1/4 sec.cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor . form which, A tesseta tree 4 ins.diam.brs.S.8¼° E. 28 lks.dist. marked 1/4 S. 22 B.T. A tesseta tree 8 ins.diam.brs.N.85°10'W.78 lks.dist. marked 1/4 S. 21 B.T.

41.00 Dry wash 30 lks. wide, course S.80° E. asc.

58.00 Top of ridge, brs. SE. & NW. desc.

72.88 Road, brs. NW. & SE.

80.00 Set a sandstone 24x12x12 ins. 18 ins. in the ground for cor. of secs. 15,16,21 & 22 marked with 3 notches on S. & E. edges and T. 19 S. on NE. and R. 11 E. on SE. S. 16 on NW. and S. 22 on SW. faces and raise a md.of Stone 2 ft. base 1½ ft. high W. of cor.No bearings avail. Land mountainous. Soil, gravelly 2nd & 3rd rate. No timber. Undergrowth, mesquite, tesseta. good native grass. Mountainous land 80.00 chs. ✓ At this cor. at noon I set off 6° 26' 30" N. on the decl. arc and observe the sun on the meridian. The resulting latitude is 31° 46' N. ✓

East on a random line bet. secs. 15 & 22

40.00 Set temp. 1/4 sec.cor.

79.98 Intersect N. & S. line at point 3 lks. N. of cor. of secs. 14,15,22, & 23, whence I run, N.89° 59' W. on a true line bet. secs. 15 & 22 Over mountainous land, desc.

9.50 Gulch 50 lks. course S. [illegible].

20.10 Gulch 50 lks. wide, course S.E. asc.

30.00 Top of ridge, brs. S. & N. desc.

39.99 Set a quartzite 24x16x12 ins. 18 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. No bearings available.

65.00 Gulch 65 lks. wide, course S. asc. steeply.

70.00 Top of flat ridge, brs. S. & N.

79.98 Dry wash, 60 lks. wide, course SE. To cor. of secs. 15,16,21 & 22. Land mountainous. Soil,2nd & 3rd rate, gravelly. No timber, undergrowth, scattering mesquite,native grass. Mountainous land 79.98 chs.

N. 0° 02' W. bet. secs. 15 & 16.

Over rolling land, through dense mesquite.undergrowth.

1.00 Dry wash 60 lks. wide, course SE. asc.

17.00 Top of ridge, brs. SE. & NW. desc.

28.00 Dry wash 30 lks. wide, course SE. asc.

38.00 Leave dense mesquite.

40.00 Set a conglomerate stone 24x12x12 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. No bearings available. Asc. to top of ridge extending S.

55.00 On W. slope of ridge [illegible].

74.00 Desc. grad.

80.00 Set a granite stone 24x12x8 ins. 18 ins. in the ground for cor. of secs. 9,10,15 & 16, marked with 4 notches on S. & 3 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available. Land rolling & mts.Soil,2nd. rate gravelly. No timber.Undergrowth, dense mesquite,tesseta.

Rolling land covered with dense undergrowth 40.00 chs.
Mountainous land ----- 40.00 chs.

Chains	
	S. 89° 59' E. on a random line bet. secs. 10 & 15.
40.00	Set temp. 1/4 sec.cor.
80.02	Intersect N. & S. line at cor. of secs. 10,11,14 & 15, whence I run, N.89° 59' W. on a true line bet. secs. 10 & 15. Over mts. land, through scattering mesquite brush. desc.steeply.
2.00	Dry wash 35 lks. wide, course S. asc. steeply.
5.50	Point of ridge, extends S. desc. steeply.
11.00	Dry wash 60 lks. wide, course SW. asc. steeply.
33.00	Top of ridge, brs. SE. & NW. desc.
35.50	Gulch 45 lks. wide, course S. asc.
40.00	Top of ridge, Set a granite stone 18x12x10 ins. 12 ins. in the ground for 1/4 sec.cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. No bearings available. Desc. from cor.
44.50	Gulch 45 lks. wide, course SW. asc.
49.00	Top of ridge, brs. SW. & NE. desc.
62.00	In valley of wash.
66.00	Dry wash 60 lks. wide course S. asc. grad.
76.50	Top of ridge, brs. S. & N. desc. grad.
80.02	To cor. of secs. 9,10,15 & 16. Land mountainous. Soil, 2nd & 3rd rate. No timber, undergrowth, mesquite, tesseta. native grass. Mountainous land 80.02 chs.

April 6,1909

April 7,1909 at 7h a.m.,l.m.t., at the cor. of secs. 32,33, 4, & 5, on S. bdy. of Tp. which is a malapais stone 6x10x10 ins above ground, marked & witnessed as described by the Surveyor-General, I set off 6° 45' 30" N. on the decl. arc and 31° 43' N. on the lat. arc and determine a true meridian with the solar, thence I run,

	N. 0° 02' W. bet. secs. 32 & 33. Over rough mts. land desc.
18.00	Gulch 50 lks. wide, course SE. asc. steeply.
40.00	Set a malapais stone 24x10x10 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. No bearings available.
46.00	Top of main spur brs. E. & W. desc. steeply.
62.00	Gulch 30 lks. wide, course E. asc. steeply.
80.00	Set a malapais stone 24x14x8 ins. 18 ins. in the ground for cor. of secs. 28,29,32 & 33, marked with 1 notch on S. & 4 notch on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available. Land mts. very rough. Soil 3rd rate, stony. No timber. Undergrowth, scattering mesquite, ocotillo, paloverde. Mountainous land exceptionally difficult to survey, 80.00 chs.

	East on a random line bet. secs. 28 & 33.
40.00	Set temp. ¼ sec.cor.
80.04	Intersect N. & S. line at point 5 lks. E. of cor. of secs. 27,28,33 & 34, whence I run, N.89° 58' W. on a true line bet. secs. 28 & 33. Over mts. land asc. on S. slope of ridge.
10.00	Cross same ridge in saddle brs. N.80° E. & S.80° W. Thence along N. slope of same ridge.
28.00	Top of same ridge, brs. S.80° E. & N.80° W. Desc. along S. slope.

Chains	
40.02	Set a malapais stone 24x16x10 ins. 18 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. No bearings available. ase.from cor.
58.00	Top of ridge, brs. S. 80° E. & N.80° W. desc.
80.04	To cor. of secs. 28,29,32 & 33. Land mts. Soil, 2nd & 3rd rate, gravelly,stony. No timber. Undergrowth, scattering mesquite, paloverde,ocotillo. Mountainous land exceptionally difficult to survey 80.04 chs. At this cor. at noon, I set off 6° 49' N. on the dec. arc and observe the sun on the meridian. The resulting latitude is 31° 44' N.
	N. 0° 02' W. bet. secs. 28 & 29 Over mts. land asc.
6.00	Top of ridge, brs E. & W. desc. steeply.
12.00	Gulch 30 lks. wide, course E. asc.steeply.
20.00	Top of ridge, brs NE. & SW. desc.steeply.
28.00	Gulch 30 lks. wide, course NE. asc.steeply.
40.00	Set a malapais stone 30x15x10 ins. 12 ins. in ground to bed rock with md. of stone around it for ¼ sec.cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available.
41.00	Point of Ridge, brs. NE. desc. steep on NW. slope.
68.50	Gulch 20 lks. wide,course NE. ascend.
78.00	Point of spur, brs. E. desc.
80.00	Set a malapais stone 24x15x12 ins. 18 ins. in the ground for cor. of secs. 20,21,28 & 29, marked with 2 notches on S. & 4 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available. Land mts. very rough. Soil, 3rd rate, stony,. No timber. Undergrowth, scattering mesquite, paloverde, cacti. Mountainous land exceptionally difficult to survey, 80.00 chs.
	S. 89° 58' E. on a random line bet. secs. 21 & 28. 79.98 Intersect N. & S. line at cor. of secs. 21,22, 27 & 28, whence I run, N. 89° 58' W. on a true line bet. secs. 21 & 28. Over mts.land desc. steeply.
08.00	Gulch 30 lks. wide, course SE. asc.
18.00	In gap of ridge, brs. N. & S. desc.
22.00	Gulch 30 lks. wide, course NE. asc. grad.
30.00	On ridge, in low gap, brs. NW. & SE. desc.
39.99	Set a malapais stone 24x15x15 ins. 18 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. No bearings available
48.00	Gulch 30 lks. wide, course NW. asc.
70.00	Gulch 20 lks. wide, course SE. asc.
79.98	To cor. of secs. 20,21,28 & 29. Land mts. Soil, 2nd & 3rd rate. No timber. Undergrowth, scattering mesquite, ocotillo, tesseta, Mountainous land exceptionally difficult to survey, 79.98 chs.

April 7,1909.

Chains	
	April 8,1909, at 7h a.m.,l.m.t., at the cor. of secs. 20.21,28 & 29, I set off 7° 08' N. on the decl. arc and 31° 45' N. on the lat. arc and determine a true meridian with the solar, thence I run,
	N.0° 02' W. bet. secs. 20 & 21.
	Over mts. land desc.
3.00	Gulch 20 lks. wide, course SE. asc. steeply.
15.00	Top of Spur, brs. E. & W. desc. steeply.
30.00	foot of steep slope, thence desc. grad.
40.00	Set a granite stone 24x12x10 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.
51.50	Dry wash 50 lks. wide, course E.
80.00	Set a granite stone 24x12x12 ins. 18 ins. in the ground for cor. of secs. 16,17,20 & 21, marked with 8 notches on S. & 4 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. from which,
	A mesquite tree 6 ins. diam.brs.N.78° 45' E.97 lks.dist. marked T. 19 S. R. 11 E. S. 16 B.T.
	A mesquite tree 6 ins. diam.brs.N.89° 30' W.159 lks.dist. marked T. 19 S. R. 11 E. S. 17 B.T.
	No other bearings available.
	Land mts.
	Soil, 2nd & 3rd rate.
	No timber.
	Undergrowth,, mesquite, tesseta. good native grass.
	Mts. land exceptionally difficult to survey,40.00 chs.
	Mountainous land ------ - - - - - -- - - -- 40.00 chs.

	S. 89° 58' E. on a random line bet. secs. 16 & 21.
40.00	Set temp. ¼ sec.cor.
80.00	Intersect N. & S. line at point 5 lks. S. of cor. of secs. 15,16,21 & 22, whence I run.
	West on a true line bet. secs. 16 & 21.
	Over mts. land asc.
12.30	Road, brs. SE. & NW.
19.50	Gulch ,30 lks. wide, course SE.
34.50	Gulch 20 lks. course S. asc.
36.00	top of bank, thence over mesa.
40.00	Set a granite stone 24x12x12 ins. 18 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. from which,
	House of Antonia Q de Elias, brs.N.31° W. 40.10 chs.
	No [illegible] bearings available.
47.00	Desc. abrupt 35 ft. leave mesa.
50.00	Gulch 50 lks. wide, course E.S.E. asc.
68.00	Point of ridge, brs. SE. & NW.
72.00	Gulch 50 lks. wide, course SE.
80.00	To cor. of secs. 16,17,20 & 21.
	Land Mountainous.
	Soil, 2nd & 3rd rate, gravelly.
	Timber, scattering mesquite in washes.
	Undergrowth, mesquite, tesseta.
	Mountainous land, 80.00 chs.

	N.0° 02' W. bet. secs. 16 & 17.
	Over mts. land desc. through dense mesquite.
.50	Desc. abrupt 30 ft.
1.80	Gulch 30 lks. wide, course SE. asc.
7.70	Gulch 35 lks. wide course E. asc. steeply.
10.00	Asc. grad. along W. slope of flat ridge.
39.90	Road, brs. E. & W. thence over open land.
40.00	Set a granite stone 24x12x8 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.
	No bearings available.
	Thence grad. asc. along SW. slope of flat ridge.

Subdivision of T. 19 S. R. 11 E.

Chains	
80.00	Set a granite stone 24x12x8 ins. 18 ins. in the ground for Cor. of secs. 8,9,16 & 17 marked with 4 notches on S. & E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. No bearings available. Land mts. Soil, 2nd & 3rd rate, sandy, gravelly. Timber, mesquite. Undergrowth, dense mesquite 1st ½ mile. Mountainous land covered with dense undergrowth and exceptionally difficult to survey 40.00 chs. Mountainous land -- - - - - -40.00 chs.
	At this last described cor. at noon, I set off 7°11'30" N. on the decl. arc and observe the sun on the meridian. the resulting lat. is 31° 47' N. ✓
	East on a random line bet. secs. 9 & 16.
40.00	Set temp. ¼ sec.cor.
80.00	Intersec N. & S. line at cor. of secs. 9,10,15 & 16, whence I run, West on a true line bet. secs. 9 & 16. Over mts. land desc.
.20	Gulch 15 lks. wide, course SE. asc. steep.
2.00	Point of ridge, brs. S. & N. desc. steep.
6.00	Main gulch 50 lks. wide, course S. asc. steep.
12.00	Top of ridge, brs. S. & N. desc. grad.
32.00	Gulch 40 lks. wide, course SE. asc.
37.00	Top of ridge, brs. SE. & NW. desc.
40.00	Cor. point falls in small wash 10 lks. wide, course S.
40.15	Set a granite stone 20x12x8 ins. 15 ins. in the ground for witness cor. to ¼ sec.cor. marked ¼ W.C. on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. No bearings available. Asc. grad.
51.00	Top of ridge, brs. SE. & NW. desc. grad.
56.00	Decs. abrupt 30 ft.
58.00	Main wash 45 lks. wide, course S. asc.
72.00	Top of ridge, brs. SE. & NW. desc. grad.
80.00	To cor. of secs. 8,9,16, & 17. Land mountainous. Soil, 2nd & 3rd rate, sandy, gravelly. No timber. Undergrowth, scattering mesquite, tesseta, ocotillo. Mountainous land 80.00 chs.
	West bet. secs. 8 & 17, Over rolling land desc. gently.
15.50	Dry wash 20 lks. wide, course S. asc. grad.
20.00	Top of ridge, brs. S. & N. desc. grad.
28.50	Dry wash 20 lks. wide, course SW. asc. grad.
33.00	Top of ridge, brs. S. & N. desc. grad.
35.50	Dry wash 20 lks. wide, course S. asc.
40.00	Top of flat ridge. Set an igneous rock 24x12x12 ins. 18 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. No bearings available. Rolling land 40.00 chs. Here I discontinue the subdivision of this Tp.

In the notes the directions of all ridges are given both ways from the intersection, the first direction given being that in which the spur or ridge ends or slopes.

For general description see end of field notes of E. bdy.

April 8, 1909.

Jesse B. Wright
U.S. Deputy Surveyor.

Per authority for red ink corrections see Deputy's letter May 1-1909

BOOK 2127 219

13

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

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 Frac. Subdivision of T. 19 S. R 11 E. showing the respective capacities in which they acted:

Jesse N Benson, *Chainman.*
Walter Percival, *Chainman.*
, *Moundman.*
, *Moundman.*
Andrew F. Dennston, *Axman.*
, *Axman.*
Alexandro Cruz, *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 Subdivisions of T. 19 S. R 11 E.

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

Jesse N. Benson, *Chainman.*
Walter Percival, *Chainman.*
, *Moundman.*
, *Moundman.*
Andrew F Dennistón, *Axman.*
, *Axman.*
Alexandro Cruz, *Flagman.*

Subscribed and sworn to before me this 10 th day of April, 1909
my com. exp. apr. 22-1909

SEAL

W W Purcell
Notary Public

6—151

220
(14)

BOOK 2127

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

Subdivisions of T. 19 S. R. 11 E.

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 20th day of April, 1909

Allan B. Haynes
CLERK U. S. DISTRICT COURT FOR
FIRST JUDICIAL DISTRICT, ARIZONA.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Ariz, Aug. 19, 1909

The foregoing field notes of the survey of a portion of the subdivisions of T. 19 S. R. 11 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.

6—151