

OCT. 3-1910

2240

accepted, G. L. D.
letter E. Mar. 8-1912

Book, ~~R~~
BOOK 2240

2240

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions of
T 10 1/2 N. R. 15 E.,

2240

Retraacement of portion of North Bdy of T 10 1/2 N, R 15 E
and

Retraacement of portion of West Bdy of Fort Apache
Indian Reservation.

2240

Of the Gaud S. P. Base and Meridian,

Territory of Arizona

AS SURVEYED BY

Francis Jacobs (Jacobs & Curry) United States Deputy Surveyor,

Under ^{Joint} his Contract No. 148, dated March 20, 1908

Survey commenced August 19, 1900

Survey completed August 29, 1900

2240

2240

NAMES AND DUTIES OF ASSISTANTS.

James A. Kellis Chairman
Robert S. Pined " "
John Childress Assessor

54

BOOK 2240

INDEX DIAGRAM.

Township 10 1/2 N, Range 15 E

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15 76	14 31	13
19	20	21	22	23	24
2	5	8	12	12	
30	29	28	27	26	25
1	4	7	10	11	
31	32	33	34	35	36

15

14²³

Fort Apache Indian Res.

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, James A. Kellis and Robert L. Penrod
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivisions of S 10 1/2 N. R. 15 E.

James A. Kellis, Chainman.
Robert L. Penrod, Chainman.

Subscribed and sworn to before me this 9
day of August, 1910



Francis Jacobs
Notary Public

My commission expires September 20, 1911

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, John Childress 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 ~~my~~ skill and ability, in the survey of the Subdivisions of S 10 1/2 N. R. 15 E.

John Childress, Axman.
_____, Axman.

Subscribed and sworn to before me this 9
day of August, 1910



Francis Jacobs
Notary Public

My commission expires September 20, 1911

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 commenced August 19, 1910. And executed with a Gurley Light Mountain Transit, with solar attachment, for full description of instrument and manner of adjusting see page 1 of the field notes of the W. bdy. of T 10 N., R. 15 E. filed herewith.

August 19; I set off $34^{\circ} 15'$ Non the lat. arc; $12^{\circ} 57'$ Non the decl. arc, and at 9h a.m., l.m.t., and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp.

and run thence

$N. 0^{\circ} 1' E.$, bet. secs. 31 and 32.

Over mountainous land, through heavy timber.

0.30 Gulch, 10 lks. wide, course SW.

Ascend.

19.60 Ridge and Road, Hollbrook via Heber to Pleasant Valley bears E. and W.

20.00 Descend.

40.00 Set a sandstone $16 \times 12 \times 8$ ins., 11 ins. in the ground, for

$1/4$ sec. cor., marked $1/4$ on W. face, from which

A Pine 30 ins. diam., bears S. $8^{\circ} E.$ 21 lks. dist.,

marked $1/4 S 32 B T$.

A Pine 20 ins. diam. bears S. $43^{\circ} W.$ 32 lks. dist.,

marked $1/4 S 31 B T$.

40.60 Canon 300 feet deep, course S. $75^{\circ} E.$

Ascend steep ridge.

51.00 Top of flat ridge, bears W. and N.

73.45 Trail Canyon creek to Gordon Canon, bears E. and W.

80.00 Set a sand stone $24 \times 12 \times 8$ ins., 18 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edge, from which

A Pine 20 ins. diam. bears N. $79^{\circ} E.$ 29 lks. dist.,

marked T 10 $1/2$ N R 15 E S 29 B T.

A Pine 15 ins. diam., bears S. $10^{\circ} 30' E.$ 32 lks. dist.,

marked T 10 $1/2$ N R 15 E S 32 B T.

A Pine 30 ins. diam., bears S. $83^{\circ} W.$ 56 lks. dist.,

marked T 10 $1/2$ N R 15 E S 31 B T.

A Pine 12 ins. diam., bears N. $32^{\circ} 30' W.$ 17 lks. dist.,

marked T 10 $1/2$ N R 15 E S 30 B T.

Land mountainous.

Soil rocky, 3d rate.

Timber Pine and oak, undergrowth the same.

Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey 80.00 chs.

West, on a random line bet. secs. 30 and 31.

40.00 Set temp $1/4$ sec. cor.

80.16 Intersect W. bdy. of Tp. 18 lks. N. of cor. of secs. 25, 30, 31 and 36, recently established by me.

Thence I run

$N. 89^{\circ} 52' E.$ on a true line bet. secs. 30 and 31.

Over very mountainous land, through heavy timber.

Ascend.

31.00 Top of plateau, bears SE and NW.

40.08 Set a sand stone $24 \times 10 \times 5$ ins., 18 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face, from which

A Pine 24 ins. diam., bears N. $13^{\circ} E.$ 58 lks. dist.,

marked $1/4 S 30 B T$.

Chains.

- A Pine 20 ins.diam., bears S.74° 30' E. 36 lks.dist.,
marked 1/4 S 31 B T .
47.40 Road Holbrook via Heber to pleasant Valley, bears SE. and NW.
80.16 The cor. of secs. 29, 30, 31 and 32.
Land mountainous.
Soil rocky 4th rate.
Timber Pine, oak, cedar, locust, maple, and quaking asp.
undergrowth the same.
Mountainous land, covered with heavy timber, exception-
ally difficult to survey, 80.16 chs.
August 19, 1910.

- August 20; At 8h20m.a.m., l.m.t., I set off 34° 16'
N. on the lat. arc; 12° 38' N on the decl. arc, and determine
a meridian with the solar, and run
N.0° 1' E., bet secs. 29 and 30.
Over mountainous land, through heavy timber.
0.50 Descend into canon.
20.25 Bottom of canon 400-foot deep, course E.
Ascend steep mountain.
40.00 Set sandstone 18x8x6 ins., 12 ins. in the ground, for
1/4 sec. cor., marked 1/4 on W. face, from which
An Oak 24 ins.diam., bears S.39° E. 50 lks.dist.,
marked 1/4 S 29 B T .
A Pine 6 ins.diam., bears N.89° W. 26 lks.dist.,
marked 1/4 S 30 B T .
47.00 Ridge bears E. and W.
48.00 Descend.
55.50 Head of canon, course E.
Ascend.
60.00 Top.
80.00 Set a sandstone 30x10x6 ins. 18 ins. in the ground,
surrounded by mound of stone, for cor. of secs. 19, 20,
29 and 30, marked with 2 notches on S. and 5 notches on
E., from which
A Pine 24 ins.diam., bears N.16° E. 89 lks.dist.,
marked T 10 1/2 N R 15 E S 20 B T .
A Pine 20 ins.diam., bears S.44° E. 35 lks.dist.,
marked T 10 1/2 N R 15 E S 29 B T .
A Pine 30 ins.diam., bears S.80° W. 45 lks.dist.,
marked T 10 1/2 N R 15 E S 30 B T .
A Pine 30 ins.dia., bears N.22° 30' W. 102 lks.dist.,
marked T 10 1/2 N R 15 E S 19 B T .
Land mountainous.
Soil rocky 3d rate.
Timber pine, oak, walnut, locust and alder, undergrowth
the same.
Mountainous land, covered with heavy timber and dense
undergrowth, exceptionally difficult to survey 80.00 C.

- S.89° 52' W., on a random line bet. secs. 19 and 30.
40.00 Set temp. 1/4 sec. cor.
80.28 Intersect W. bdy 42 lks. S. of the cor. of secs. 19, 24, 25
and 30, recently established by me, thence I run
S.89° 50' E., on a true line, bet. secs. 19 and 30.
Over mountainous land, through heavy timber.

Subdivisions of T. 10 1/2 N., R. 15 E.,

Chains.	
4.95	Road, Holbrook via Heber to Pleasant valley, bears SE. and NW.
40.14	Set a sandstone 16x8x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, from which A Pine 24 ins. dia., bears S. 9° E. 38 lks. dist., marked 1/4 S 30 B T. A Pine 14 ins. diam., bears N. 66° W. 50 lks. dist., marked 1/4 S 19 B T.
80.28	The cor. of secs. 19, 20, 29 and 30. Land, on top of plateau, rolling. Soil rocky 3d rate. Timber pine and oak. Mountainous land, covered with heavy timber, exceptionally difficult to survey, 80.28 chs.
	N. 0° 1' E., bet. secs. 19 and 20. Over mountainous land, through heavy timber.
24.00	Descend.
26.50	Head of canon, course E. Ascend.
32.00	Top.
40.00	Set a sandstone 18x12x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, from which A Pine 20 ins. diam., bears N. 24° 30' E. 33 lks. dist., marked 1/4 S 20 B T. An Oak 12 ins. diam., bears S. 69° 30' W. 7 lks. dist., marked 1/4 S 19 B T.
66.17	Intersect S. bdy. of Tp. 11 N., R. 14 E. 4.60 chs. E. of the cor. of secs. 1, 2, 35 and 36, which is an iron post with cap, marked with 6 groves on N. and S. sides and 1 grove on E. and 5 groves on W., S 1 on SE. and S 2 on SW. I obliterate markings on post and bearing trees referring to secs 1 and two. bedrock. I set a sandstone 30x12x5 ins. 18 ins. in the ground, top, surrounded by mound of stone, for closing cor. of secs 19 and 20, marked C C on S. with 1 groves on W. and 5 groves on E. face, from which. A Pine 24 ins. diam., bears S. 35° 30' E. 12 lks. dist., marked T 10 1/2 N R 15 E S 20 B T. A Pine 20 ins. diam., bears S. 55° W. 3 lks. dist., marked T 10 1/2 N R 15 E S 19 B T. Land mountainous. Soil rocky, 3d rate. Timber pine and oak, undergrowth the same. Mountainous land, covered with heavy timber, exceptionally difficult to survey, 66.17 chs. Connecting line, the same, 4.60 chs.
	August 20, 1910.
	August 22; At 8h, a.m., l.m.t., I set off 34° 15' Non the lat. arc; 11° 58' on the decl. arc and determine a meridian with the solar, at the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp. and run thence N. 0° 1' E., bet. secs. 32 and 33. Over mountainous land, through heavy timber. Descend steep bank.
7.50	Bottom of canon, 500 feet deep, course E. Ascend steep mountain.

4.

Subdivisions of T. 10 1/2 N., R. 15 E.

Chains:

- 40.00 Set a sandstone 20x10x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, from which
A Pine 20 ins. diam., bears S. 6° E. 44 lks. dist., marked 1/4 S 33 B T.
A Pine 24 ins. diam., bears N. 58° W. 43 lks. dist., marked 1/4 S 32 B T.
- 42.00 Ridge, bears E. and W.
Descend very steep mountain.
- 53.30 Gulch 20 lks. wide, course E.
Ascend steep mountain.
- 70.00 Ridge slopes SE.
Descend.
- 80.00 Set a granite stone 20x12x6 ins., 15 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E edge, from which
A Pine 24 ins. diam., bears N. 23° E. 15 lks. dist., marked T 10 1/2 N R 15 E S 28 B T.
A Pine 8 ins. diam., bears S. 4° E. 58 lks. dist., marked T 10 1/2 N R 15 E S 33 B T.
A Pine 12 ins. diam., bears S. 56° W. 73 lks. dist., marked T 10 1/2 N R 15 E S 32 B T.
A Pine 18 ins. diam., bears N. 32° 30' W. 23 lks. dist., marked T 10 1/2 N R 15 E S 29 B T.
Land mountainous.
Soil rocky 3d rate.
Timber pine and oak, undergrowth the same.
Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey
80.00 chs.
-
- West, on a random line bet. secs. 29 and 32.
- 40.00 Set temp 1/4 sec. cor.
- 80.12 Intersect N. and S. line 36 lks. S. of the cor. of secs. 29, 30, 31 and 32, thence I run
S. 89° 45' E., on a true line bet. secs. 29 and 32,
Over mountainous land, through heavy timber.
- 1.00 Descend very steep mountain.
- 11.80 Gulch 25 lks. wide, course NW. Ascend along N. slope of mtn.
- 40.06 Set a sandstone 18x10x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face, from which
An Oak 8 ins. diam., bears N. 58° E. 23 lks. dist., marked 1/4 S 29 B T.
A Pine 24 ins. diam., bears S. 5° 30' W. 36 lks. dist., marked 1/4 S 32 B T.
- 55.70 Trail, Canyon Creek to Gordon Canon, bears NE. and SW.
- 60.00 Descend very steep mountain.
- 80.12 The cor. of secs. 28, 29, 32 and 33.
Land mountainous.
Soil rocky 4th rate.
Timber pine, oak maple, locust, alder, box elder, walnut and cedar. undergrowth the same.
Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey, 80.12 chs.
August 22, 1910.
-

Chains.

- August 23; At 7h 50m, a.m., l.m.t., I set off
 34° 16' on the lat. arc; 11° 38' on the decl. arc, and
 determine a meridian with the solar, and run
 N. 0° 1' E., bet. secs. 28 and 29
 Over mountainous land, through heavy timber.
 Descend.
- 23.15 Gulch 30 lks. wide course S. 60° E.
 Ascend.
- 34.50 Ridge bears E. and W.
 Descend.
- 40.00 Set a sandstone 24x8x5 ins., 18 ins. in the ground, for
 1/4 sec. cor., marked 1/4 on W. face, from which
 An Oak 16 ins. in diam., bears S. 22° E. 41 lks. dist.
 marked 1/4 S 28 B T .
 A Pine 18 ins. diam., bears S. 54° W. 58 lks. dist.,
 marked 1/4 S 29 B T .
- 42.70 Gulch, 30 lks. wide, course N. 30° W.,
- 62.30 Bottom of canon and trail, Canyon Creek to Gordon Canon,
 bears NE. and SW.
 Ascend.
- 80.00 Set a sandstone 20x10x6 ins., 15 ins. in the ground,
 for cor. of secs. 20, 21, 28 and 29, marked with 2 notches
 on S. and 4 notches on E. edge, from which
 A Pine 24 ins. diam., bears N. 20° 30' E. 74 lks. dist.,
 marked T 10 1/2 N R 15 E S 21 B T .
 A Pine 14 ins. diam., bears S. 21° E. 20 lks. dist.,
 marked T 10 1/2 N R 15 E S 28 B T .
 A Pine 18 ins. diam., bears S. 58° W. 91 lks. dist.,
 marked T 10 1/2 N R 15 E S 29 B T .
 A Pine 30 ins. diam., bears N. 25° W. 90 lks. dist.,
 marked T 10 1/2 N R 15 E S 20 B T .
 Land mountainous.
 Soil rocky, 4th rate.
 Timber Pine, oak, cedar, undergrowth the same.
 Mountainous land, through heavy timber, exceptionally
 difficult to survey. 80.00 chs.
-
- 40.00 N. 89° 45' W., on a random line bet. secs. 20 and 29
 Set temp. 1/4 sec. cor.
- 80.12 Intersect N. and S. line 12 lks. N. of the cor. of secs.
 19, 20, 29 and 30, Thence I run
 S. 89° 50' E., on a true line, bet. secs. 20 and 29.
 Over mountainous land, through heavy timber.
- 7.50 Descend Over bluffs.
- 9.80 Head of W. Fork, Canyon Creek, course NE.
 Ascend abruptly.
- 13.80 Top.
- 40.06 Set a sandstone 18x10x5 ins., 12 ins. in the ground, for
 1/4 sec. cor., marked 1/4 on N. face, from which
 A Pine 12 ins. diam., bears S. 28° E. 14 lks. dist.,
 marked 1/4 S 29 B T .
 A Pine 30 ins. diam., bears N. 72° 30' W. 44 lks. dist.,
 marked 1/4 S 20 B T .
- 55.25 Top of rimrock bluff 50 ft. high, descend.
- 55.50 Descend very steep mountain 30° slope.
- 80.12 The cor. of secs. 20, 21, 28 and 29.
 Land mountainous.
 Soil rocky 4th rate.
 Timber pine, oak and cedar, undergrowth the same.

Chains. Mountainous land, covered with heavy timber, exceptionally difficult to survey, 80.12 chs.

N. 0° 1' E., bet. secs. 20 and 21.
Over mountainous land, through heavy timber.
Along rugged mountainside, sloping abruptly to the east.

20.00 Descend.
28.10 Bottom of canon 500 feet deep, course S. 60° E.
Ascend very steep mountain.

40.00 Set a sandstone 18x10x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. side, from which
An Oak 10 ins. diam., bears N 27° E. 29 lks. dist.,
marked 1/4 S 21 B T .
A Pine 18 ins. diam., bears S. 7° W. 9 lks. dist.,
marked 1/4 S 20 B T .

66.00 Top of steep mountain.

66.40 Intersect S. bdy. T. 11 N., R. 15 E. 5.05 chs. E. of the cor. of Tps. 10 and 11 N., Rs. 14 and 15 E., which is an iron post marked and witnessed as described by the Surveyor General,
I set a sandstone 24x10x6 ins., 18 ins. in the ground, for closing cor. of secs. 20 and 21, marked C C and 2 grooves W. and 4 grooves on E. face, from which
A Pine 20 ins. diam., bears S. 28° E. 94 lks. dist.,
marked T 10 1/2 N R 15 E S 21 B T .
A Pine 15 ins. diam., bears S. 62° 30' W. 72 lks. dist.,
marked T 10 1/2 N R 15 E S 20 B T .
Land mountainous.
Soil rocky 4th rate.
Timber pine and oak and walnut.
Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey, 66.40 chs.
Connecting line the same 5.05 chs.

August 23, 1910.

August 24; At 7h 45m, a.m., l.m.t., I set off 34° 15' N on the lat. arc; 11° 18' N on the decl. arc, and determine a true meridian with the solar, at the cor. of secs. 3, 4, 33 and 34 on the S. bdy. of the Tp.
Thence I run
N. 0° 2' E., bet. secs. 33 and 34.
Over mountainous land, through heavy timber.

1.00 Descend steep slope.
8.50 Bottom of canon, course S. 60° E.
Ascend.

12.00 Ascend very steep mountain.
40.00 Top of ridge, bears SE. and NW.
Set a sandstone 18x10x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, from which
A Pine 30 ins. diam., bears S. 32° E. 65 lks. dist.,
marked 1/4 S 34 B T .
A Pine 30 ins. diam., bears S. 44° W. 50 lks. dist.,
marked 1/4 S 33 B T .

41.00 Descend.
64.40 Gulch 20 lks. wide, course NE.
Ascend abruptly along W. side of Canyon Creek.

80.00 Set a sandstone 20x10x5 ins., 15 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edge, from which

Subdivisions of T. 10 1/2 N., R. 15 E.

7.

chains.

An Oak 10 ins.diam., bears N.48° E. 67 lks.dist.,
marked T 10 1/2 N R 15 E S 27 B T .
A Pine 24 ins.diam., bears S.47° 30' E. 97 lks.dist.,
marked T 10 1/2 N R 15 E S 34 B T .
A Cedar 24 ins.diam., bears S.63° W. 53 lks.dist.,
marked T 10 1/2 N R 15 E S 33 B T .
An Oak 10 ins.diam., bears N.57° 30' W. 16 lks.dist.,
marked T 10 1/2 N R 15 E S 28 B T .
Land very mountainous.
Soil rocky 3drate.
Timber pine, oak and cedar, undergrowth the same.
Mountainous land, covered with heavy timber,
exceptionally difficult to survey, 80.00 chs.

August 24; At this corner, I set off 11° 14' N on
the decl.arc; and observe the Sun at noon, on the
meridian; the resulting latitude is 34° 16' N.

West, on a random line, bet. secs. 28 and 33.

40.00 Set temp. 1/4 sec.cor.
79.82 Intersect N.and S line 26 lks.S.of the cor.of secs.
28, 29, 32 and 33. Thence I run
S.89° 49' E., on a true line, bet. secs. 28 and 33.
Over very mountainous land, through heavy timber.
Descend steep mountain.
25.00 Bottom of canon 400 feet deep, course SE.
Ascend steep mountain.
39.50 Ridge, bears N.and S.,
Descend.
39.91 Set a granite stone 20x8x6 ins., 15 ins.in the ground,
for 1/4 sec.cor., marked 1/4 on N.face, from which
A Pine 20 ins.diam., bears S.33° W. 55 lks.dist.,
marked 1/4 S 33 B T .
A Pine 10 ins.diam., bears N.48° 30' W. 39 lks.dist.,
marked 1/4 S 28 B T .
79.82 The cor.of secs.27, 28, 33 and 34.
Land mountainous.
Soil rocky 4th rate.
Timber pine, oak, walnut and cedar.
Mountainous land, covered with heavy timber,
exceptionally difficult to survey, 79.82 chs.
August 24, 1910.

August 25; At 7h 30m.a.m., l.m.t., I set off
34° 16' N on the lat.arc; 10° 58' N on the decl.arc, and
determine a meridian with the solar, and run
N.0° 2' E., bet. secs 27 and 28.

Over mountainous land, through heavy timber.
Descend along W.side of Canyon Creek.

39.80 Small ravine, course NE.
40.00 Set a sandstone 24x12x3 ins. 10 ins.in the ground, to
bedrock, surrounded by a mound of stone, for 1/4 sec.cor.
marked 1/4 on W.face, from which
An Oak 12 ins.diam., bears N.80° 30' E. 47 lks.dist.,
marked 1/4 S 27 B T .
A Pine 8 ins.diam., bears N.71° 30' W. 8 lks.dist.,
marked 1/4 S 28 B T .
46.50 Gulch 40 lks.wide, course E.
47.50 Ascend abruptly.

Subdivisions of T. 10 1/2 N., R. 15 E.

Chains.

50.00 Top of bank, bears E. and W.
 62.90 Wire fence, Sam Sharp owner, bears E. and W. Enter pasture.
 76.00 Bottom.
 80.00 Set a sandstone 24x10x8 ins., 18 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, from which
 A Cottonwood 20 ins. diam., bears N. 46° 30' E. 338 lks. dist marked T 10 1/2 N R 15 E S 22 B T .
 A Pine 20 ins. diam., bears S. 73° E. 386 lks. dist., marked T 10 1/2 N R 15 E S 27 B T .
 A Pine 24 ins. diam., bears S. 68° W. 415 lks. dist., marked T 10 1/2 N R 15 E S 28 B T .
 A Pine 20 ins. diam., bears N. 9° 15' W. 375 lks. dist., marked T 10 1/2 N R 15 E S 21 B T .
 The SE. cor. of log cabin 14x18 ft. Sam Sharp, owner, bears N. 81° W. 6.22 chs. dist.
 Stock coral, Sam Sharp owner, bears N. 65° W. 2 chs. dist.
 Land mountainous.
 Soil 2d and 3d rate.
 Timber pine, oak, cedar and cottonwood.
 Mountainous land, covered with heavy timber, exceptionally difficult to survey, 80.00 chs.

N. 89° 49' W., on a random line, bet. secs. 21 and 28.
 40.00 Set temp. 1/4 sec. cor.
 79.84 Intersect N. and S. line 16 lks. S. of the cor. of secs. 20, 21, 28 and 29, Thence I run
 S. 89° 42' E., on a true line bet. secs. 21 and 28.
 Over mountainous land, through heavy timber.
 Descend steep mountain.
 12.30 Trail, Canyon Creek to Gordon Canon, bears NE. and SW.
 12.60 Bottom of canon, course NE.
 Ascend steep bank.
 34.00 Descend steep hill.
 39.92 Bottom of steep hill.
 Set a sandstone 18x8x5 ins. 12-ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face, from which
 A Pine 30 ins. diam., bears S. 48° W. 71 lks. dist., marked 1/4 S 28 B T .
 An Oak 18 ins. diam., bears N. 57° W. 16 lks. dist., marked 1/4 S 21 B T .
 Descend.
 47.85 Wire fence, Sam Sharp owner, bears N. and S. enter pasture.
 75.00 Bottom.
 79.84 The cor. of secs. 21, 22, 27 and 28.
 Land mountainous.
 Soil 2d and 3d rate.
 Timber pine, oak, cedar and cottonwood.
 Mountainous land, covered with heavy timber, exceptionally difficult to survey, 79.84 chs.

N. 0° 2' E., bet. secs. 21 and 22.
 Over rolling and hilly land
 4.75 Gulch 25 lks. wide, course E.
 12.30 Canyon Creek 60 lks. wide, course S. 20° E.
 14.80 Stone and wire fence, H. J. Ramer owner, bears S. 20° E. and
 40.00 N. 80° W. enter meadow.
 Set a sandstone 18x6x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, from which

Subdivisions of T. 10 1/2 N., R. 15 E.

Chains.

A Pine 30 ins. diam., bears S. 77° E. 76 lks. dist., marked 1/4 S 22 B T .

A Pine 30 ins. diam., bears N. 31° W. 118 lks. dist., marked 1/4 S 21 B T .

The NW. cor. of H. J. Ramers ranch house bears S. 18° 50' E. 19.55 chs. dist., a two story log house 18x48 fet, the long side running E.

41.20 Rail fence, bears SE. and W, leave Ramers meadow, enter Alfred Darlington's pasture.

66.30 Wire fence, bears E. and W., leave Darlington's pasture.

67.20 Intersect S. bdy. of T. 11 N., R. 15 E., 6.87 chs. E. of the cor. of secs. 5, 6, 31 and 32. an iron post marked and witnessed as described by the Surveyor General. I obliterate the markings on the post and bearing trees referring to the secs. on the S.,

I set a sandstone 20x10x5 ins., 15 ins. in the ground for closing cor. of secs. 21 and 22, marked C C and 3 groves on W. and 3 groves on E. face.

A Pine 16 ins. diam., bears S. 20° E. 100 lks. dist., marked T 10 1/2 N R 15 E S 22 B T .

A Pine 18 ins. diam., bears S. 3° W. 90 lks. dist., marked T 10 1/2 N R 15 E S 21 B T .

Land rolling, level and hilly.

Soil 2d and 3d rate.

Timber pine oak, alder, boxelder and cottonwood.

Land covered with heavy timber, exceptionally difficult to survey,

Connecting line, the same,

67.20 chs.

6.87 chs.

August 25, 1910.

Other improvements of H. J. Ramer, located from the SW. cor. of the ranch house noted above:

Blacksmith shop 14x16 ft. bears S. 70° E. 2.60 chs. dist.

Office 14x18 ft., two story, with porch in front bears S 72° 30' E., 3.50 chs. dist.

Barn and stables the NW. cor. bears S. 35° E. 3.20 chs., running thence E. 100 ft. and S. 75 ft. 20 ft. wide, L shape,

Chicken house 12x20 ft. bears S. 63° E. 4 chs. dist.

Two stock corals adjacent to the barn, one S. and one E.

Dairy house 10x12 bears South 2.80 chs.

Log cabin, Alfred Darlington owner, bears S. 66° E. 24.30 chs. dist. from the Closing cor. of secs. 21 and 22.

Chains.

August; 26 At 7h 40m, a.m., l.m.t., I set off $34^{\circ}15'N$. on the lat. arc; $10^{\circ}37'N$. on the decl. arc, and determine a meridian with the solar, at the cor. of secs 2, 3, 34 and 35 on the S. bdy. of the Tp. and run thence $N. 0^{\circ}2'E.$, bet. secs. 34 and 35.

Over very mountainous land, through heavy timber.

Descend.

- 2.70 Spring gulch, 15 lks. wide, course SW.
Ascend very abruptly.
- 20.00 Point of ridge, bears NE.
Descend, very steep mountain.
- 25.25 Canon 400 feet deep, course SW.
Ascend 43° slope.
- 40.00 Set a sandstone $24 \times 10 \times 5$ ins., 18 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face, from which
An Oak 10 ins. diam., bears N. $51^{\circ}E.$ 15 lks. dist., marked $1/4 S 35 B T$.
A Pine 26 ins. diam., bears S. $19^{\circ}30' W.$ 41 lks. dist., marked $1/4 S 34 B T$.
- 72.00 Ridge bears NE. and SW.
Descend along W. slope.
- 80.00 Set a sandstone $24 \times 8 \times 5$ ins., 18 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edge, from which
A Pine 30 ins. diam., bears N. $10^{\circ}30'E.$ 56 lks. dist., marked T 10 1/2 N R 15 E S 26 B T.
A Pine 20 ins. diam., bears S. $70^{\circ}E.$ 54 lks. dist., marked T 10 1/2 N R 15 E S 35 B T.
An Oak 18 ins. diam., bears S. $18^{\circ}W.$ 57 lks. dist., marked T 10 1/2 N R 15 E S 34 B T.
A Pine 30 ins. diam., bears N. $89^{\circ}30' W.$ 56 lks. dist., marked T 10 1/2 N R 15 E S 27 B T.
Land mountainous.
Soil rocky. 3d and 4th rate.
Timber pine, oak and cedar, undergrowth oak and pine.
Mountainous land, covered with heavy timber and dense undergrowth, exceptionally difficult to survey,
80.00 chs.

West, on a random line, bet. secs. 27 and 34.

- 40.00 Set temp. $1/4$ sec. cor.
- 79.74 Intersect N. and S. line 40 lks. S. of the cor. of secs 27, 28, 33 and 34, thence I run
 $S. 89^{\circ}43'E.$, on a true line bet. secs. 27 and 34.
Over mountainous land, through heavy timber.
Descend steep mountain.
- 20.00 Canyon Creek bottom, bears N. and S.
- 21.80 Canyon Creek, 40 lks. wide, course S. $10^{\circ}E.$,
- 22.20 Ascend steep mountain.
- 39.87 Set a granite stone $20 \times 8 \times 6$ ins. 15 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face, from which
An Oak 8 ins. diam., bears N. $56^{\circ}45'E.$ 42 lks. dist., marked $1/4 S 27 B T$.
A Pine 30 ins. diam., bears S. $8^{\circ}E.$ 12 lks. dist., marked $1/4 S 34 B T$.
- 55.50 Ridge, bears N. and S.
Descend steep mountain.
- 66.60 Canon 300 feet deep, course S. $15^{\circ}W.$,
Ascend steep mountain.

Chains.

79.74

The cor. of secs. 26, 27, 34 and 35.

Land mountainous.

Soil 2d and 3d rate.

Timber pine, oak, cedar and cottonwood.

Mountainous land, covered with heavy timber, exceptionally difficult to survey,

79.74 chs.

East on a true line, bet. secs. 26 and 35.

Over mountainous land, through heavy timber.

Ascend steep mountain.

6.90

Ridge bears N. and S.

7.17

Intersect W. bdy., Fort Apache Indian Reserve, 12.88 chs. S. of the 2 1/2 mile stone.

I set a granite boulder 24x14x8 ins., 18 ins. in the ground, for closing cor. of secs. 26 and 35, marked C C on W. with 1 groove on S. and F A I R on E. face, from which

An Oak 18 ins. diam., bears S. 32° W. 84 lks. dist.,

marked T 10 1/2 N R 15 E S 35 B T .

A Pine 12 ins. diam., bears N. 39° 30' W. 65 lks. dist.,

marked T 10 1/2 N R 15 E S 26 B T .

Land mountainous.

Soil rocky 3d rate.

Timber pine and oak.

Mountainous land, covered with heavy timber,

exceptionally difficult to survey,

7.17 chs.

Connecting line, the same,

12.88 chs.

August 26, 1910.

August 27; At 7h 45m, a.m., l.m.t., I set off 34° 16' N. on the lat. arc; 10° 15' N. on the decl. arc, and determine a meridian with the solar, and run N. 0° 2' E., bet. secs. 26 and 27.

Over mountainous land, through heavy timber.

Descend.

11.50

Gulch 30 lks. wide, course W.

Ascend.

21.00

Ridge, bears NE. and SW.

40.00

Set a granite stone 18x8x5 ins., 12 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W. face, from which

A Pine 8 ins. diam., bears N. 69° 45' E. 25 lks. dist., marked 1/4 S 26 B T .

A Pine 36 ins. diam., bears N. 18° W. 24 lks. dist.,

47.50

marked 1/4 S 27 B T

74.00

Ridge, bears NE. and SW. *Gulch 20 lks. wide, course S. 25° W*

75.25

Wire fence, brs. NE. and SW. enter Ramers pasture.

Descend abruptly.

78.00

Ascend.

80.00

Set a sandstone 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edges, from which

An Oak 12 ins. diam., bears N. 17° E. 94 lks. dist., marked T 10 1/2 N R 15 E S 23 B T .

An Oak 16 ins. diam., bears S. 59° E. 6 lks. dist.,

marked T 10 1/2 N R 15 E S 26 B T .

An Oak 8 ins. diam., bears S. 16° 30' W. 37 lks. dist.,

marked T 10 1/2 N R 15 E S 27 B T .

A Pine 24 ins. diam., bears N. 57° W. 56 lks. dist.,

marked T 10 1/2 N R 15 E S 22 B T .

Chains.

Land mountainous.
 Soil rocky 3d and 4th rate.
 Timber pine, oak, and cedar, undergrowth the same.
 Mountainous land, covered with heavy timber,
 exceptionally difficult to survey, 80.00 chs.

N.89° 43' W., on a random line bet. secs. 22 and 27.
 40.00 Set temp. 1/4 sec. cor.
 80.02 Intersect N. and S. line, 20 lks. N. of the cor. of secs.
 21, 22, 27 and 28, thence I run
 S. 89° 55' E., on a true line, bet. secs. 22 and 27.
 Over mountainous land, through heavy timber.
 9.00 Canyon Creek, 150 lks. wide, course S. 20° E.
 10.60 Rail fence bears N. and S. Enter Ramers pasture.
 17.00 Ascend mountain.
 40.01 Set a granite stone 18x10x6 ins., 12 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on N. face, from which
 A Pine 30 ins. diam., bears S. 62° E. 14 lks. dist.,
 marked 1/4 S 27 B T .
 A Pine 24 ins. diam., bears N. 19° W. 25 lks. dist.,
 marked 1/4 S 22 B T .
 52.00 Ascend very steep mountain.
 61.00 Ridge, bears SE. and NW. and Wire fence, Ramers.
 Descend abruptly.
 72.00 Ascend abruptly.
 80.02 The cor. of secs. 22, 23, 26 and 27.
 Land mountainous.
 Soil 2d and 3d rate.
 Timber Pine, Oak, and cottonwood.
 Mountainous land, covered with heavy timber,
 exceptionally difficult to survey, 80.02 chs.

East on a true line bet. secs. 23 and 26.
 Over mountainous land, through heavy timber.
 Ascend abruptly.
 .70 Wire fence bears NE. and SW. Leave Ramers pasture.
 1.00 Ridge, bears NE. and SW.
 7.38 Intersect W. bdy. Fort Apache Indian Reserve 12.66 chs.
 S. of the 1 1/2 mile stone, mkd. & wit. as desc. by the S.G.
 I set a sandstone 24x10x6 ins. 10 ins. in the ground
^{to bed rock} surrounded by mound of stone, for closing cor. of secs.
 23 and 26, marked C C on W. F A I R on E. and 2 groves
 on S., from which
 A Pine 12 ins. diam., bears S. 51° W. 80 lks. dist.,
 marked T 10 1/2 N R 15 E S 26 B T .
 A Pine 18 ins. diam., bears N. 36° W. 37 lks. dist.,
 marked T 10 1/2 N R 15 E S 23 B T .
 Land Mountainous.
 Soil rocky 4th rate.
 Timber Pine and oak.
 Mountainous land, covered with heavy timber,
 exceptionally difficult to survey, 7.38 chs.
 Connecting line the same, 12.66 chs.

August 27, 1910.

Subdivisions of T. 10 1/2 N., R. 15 E.

Chains.

August 29; At 8h, a.m., l.m.t., I set off 34° 17' N on the lat. arc; 9° 33' N on the decl. arc; and determine a meridian with the solar, and run N. 0° 2' E., bet. secs. 22 and 23.
 Over mountainous land, through heavy timber.
 Ascend.
 2.00 Descend very abruptly.
 39.00 Foot of mountain.
 40.00 Set a granite stone 20x8x6 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face, from which
 A pine 10 ins. diam., bears N. 3° E. 71 lks. dist., marked 1/4 S 23 B T.
 An oak 24 ins. diam., bears S. 83° W. 66 lks. dist., marked 1/4 S 22 B T.
 44.75 East fork of Canyon Creek, 25 lks. wide, course SW.
 45.70 Road, Canyon Creek to Holbrook, bears NE. and SW.
 Ascend.
 67.12 Intersect S. bdy. of T. 11 N., R. 15 E. 6.80 chs. E. of the cor. of secs. 4, 5, 32 and 33, an iron post marked and witnessed as described by the Surveyor General, I obliterate the markings on post and bearing trees referring to the secs. on the S.
 I set a limestone 18x10x4 ins., 12 ins. in the ground, for closing cor. of secs. 22 and 23, marked CC on S. with 4 grooves on W. and 2 grooves on E. face, from which
 A pine 14 ins. diam., bears S. 80° E. 20 lks. dist., marked T 10 1/2 N R 15 E S 23 B T.
 A pine 14 ins. diam., bears S. 19° 30' W. 31 lks. dist., marked T 10 1/2 N R 15 E S 22 B T.
 Land, mountainous.
 Soil, 2nd and 3rd rate.
 Timber, pine, oak and cottonwood.
 Mountainous land, covered with heavy timber, exceptionally difficult to survey, 67.12 chs.
 Connecting line the same, 6.80 chs.
 August 29, 1910.

Note September 1, and 2, I destroy all remaining cors. of the survey of T. 10 N., R. 15 E. as surveyed May 1908 under special instructions from the Surveyor General.

General Description.

This township is very mountainous, the altitudes ranging from 6200 feet to 7500 feet, it is cut by many canyons with precipitous sides. There is a narrow strip of land along Canyon Creek and near its head which can be irrigated, as the creek flows about 500 inches of water throughout the year.

There is an abundant growth of pine timber over the township intersperced with oak, cedar and walnut

There is a fair growth of grass which furnishes range for stock during the summer.

There is one settler on sec. 21 and two settlers on sec. 22.

J. J. Jacobs
 U.S. Deputy Surveyor

Wickenburg, Arizona, September 24, 1910.

Re-tracement of a part of Fort Apache Indian Reserve. 14

Chains.

Comparing the length of the W.bdy.of sec. 23, as surveyed by me, and the E. bdy.obtained from data furnished by the Surveyor General reveals a difference of 1.70 chs. which far exceeds the allowable limit of error; In order to locate the error

I begin at Post No. 1, at the intersection of the S.bdy.of T.11 N.,R.15 E.,with the W.bdy.of the Fort Apache Indian Reserve, and run thence South along the W.bdy of the F.A.I.R.

Descend,

16.26 The one mile stone, marked and witnessed as described by the Surveyor General.

South, on the 2d mile of the W.bdy.of the F.A.I.R. Road, Canyon Creek to Holbrook, bears E. and W.

5.60

East fork,Canyon Creek 50 lks.wide, course S.70°W.

7.00

Ascend steep mountain.

38.67

The 1 1/2 mile cor., a stone set, marked and witnessed as described by the Surveyor General. This cor.is about 800 feet above the foot of the mountain. True course is S.0°14'W.

Land mountainous.

Soil 2d and 3d rate.

Timber pine, oak and cottonwood.

Mountainous land, covered with heavy timber, exceptionally difficult to survey, 38.67 chs

August 29, 1910.

Francis Jacobs
U.S. Deputy Surveyor.

Wickenburg, Arizona, September 26, 1910.

Chains.

Comparing the length of the S.bdy.of sec. 21 as surveyed by me,with that of the N.bdy.as obtained from data furnished by the Surveyor General,reveals a difference in measurement of 1.00 chs., in order to locate the error

I begin at the cor.of T.11 N.,Rs.14 and 15 E., and run thence

East along the S.bdy.of sec. 31,

Over mountainous land, through heavy timber.

Descend.

- 5.05 The closing cor.of secs 20 and 21,recently established by me.
- 9.00 Descend very abruptly over rim rock bears N.and SW.
- 35.00 Foot of steep mountain, Gulch 10 lks.wide,course S.10° E.
- 37.96 The 1/4 sec. cor: a stone set, marked and witnessed as described by the Surveyor General.
- 45.00 Descend.
- 62.25 Canyon Creek, 40 lks. wide, course S.25° E.
- 76.00 Ravine 20 lks: wide, course S.W.
- 77.96 The cor.of secs.31 and 32, an iron post, set, marked and witnessed as described by the Surveyor General.
- Land mountainous,
Soil 2d and 3d rate.
Timber pine, oak, ceedar,walnut and cottonwood.
Mountainous land, covered with heavy timber,
exceptionally difficult to survey, 77.96 chs.
August 30, 1910.

Francis J. Jacobs
U.S. Deputy Surveyor.

Wickenburg, Arizona, September 26, 1910.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Jacobs & Curry
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the
Subdivisions of T10 1/2 N R 15 E.
showing the respective capacities in which they acted:

- James A. Mellis....., Chairman.
- Robert L. Penrod....., Chairman.
-, Moundman.
-, Moundman.
- John Childress....., Axman.
-, Axman.
-, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Francis B. Jacobs of Jacobs and
Curry....., United States Deputy Surveyor, in surveying all
those parts or portions of the Subdivisions of T10 1/2 N - R 15 E

..... of the Land
S. R. Bascom 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.

- James A. Mellis....., Chairman.
- Robert L. Penrod....., Chairman.
-, Moundman.
-, Moundman.
- John Childress....., Axman.
-, Axman.
-, Flagman.

Subscribed and sworn to before me this 30
day of August, 1900



My commission expires September 26, 1911

Francis B. Jacobs
Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Francis B. Jacobs, 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 20 day of March, 1908, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Arizona, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T 10 1/2 N. R. 15 E.

of the Land S. R. 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.

Francis B. Jacobs
United States Deputy Surveyor.

Subscribed by said Francis B. Jacobs and sworn to before me }
this 10th day of October, 1900

Frank S. Ingalls
U. S. Surveyor General



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Herrix C. King June 15, 1901

The foregoing field notes of the survey of the subdivisional lines of T 10 1/2 N. R. 15 E., Base and Salt River Base and Meridian, Arizona

executed by Francis B. Jacobs under ^{his} contract No. 148, dated March 20, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank S. Ingalls
United States Surveyor General.

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.