

1883

BOOK 1883

Book "F"
FIELD NOTES

OF THE SURVEY OF THE

East West and North boundaries of
Township 3 N. Range 31 East

-1883-

1883

Of the Gila and Salt River Meridian,

Territory of Arizona

AS SURVEYED BY

John A. Hesse, United States Deputy Surveyor,

Under his Contract No. 121, dated June 17, 1884

Survey commenced Sept 4, 1884

Survey completed Sept 8, 1884

NAMES AND DUTIES OF ASSISTANTS.

George W. Cassidy	Chairman
A. A. Snyder	Chairman
W. W. Oliver	Assman
G. E. Wiswell	Assman
W. H. Fort	Flagman

29
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BOOK 1883

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BOOK 1883

PRELIMINARY OATHS OF ASSISTANTS.

WE, George W. Cassidy and A. A. Snyder

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over 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 east, west and north boundaries of Twp. 3 N. Rg. 31 E.

George W. Cassidy, Chainman.
A. A. Snyder, Chainman.

Subscribed and sworn to before me this 1st day of August, 1904.



John P. Hesse
U. S. Dep. Surveyor

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 _____, 189 _____



WE, W. W. Oliver and G. E. Wiswell

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 the east, west and north boundaries of Twp. 3 N. Rg. 31 E.

W. W. Oliver, Axman.
G. E. Wiswell, Axman.

Subscribed and sworn to before me this 1st day of August, 1904.



John P. Hesse
U. S. Dep. Surveyor

I, W. H. Post, 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 _____

the east, west and north boundaries of Twp. 3 N. Rg. 31 E.

W. H. Post, Flagman.

Subscribed and sworn to before me this 1st day of August, 1904.



John P. Hesse
U. S. Dep. Surveyor

No notary available

1. Frac'l. West & North and the East Bdy. of T. 3 N., R. 31 E.

Survey commenced Sept. 4th, 1904, and executed with a W. and L. E. Gurley Light Mountain Solar Compass. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude arc.

The vernier of the declination arc reads to thirty seconds of arc.

The instrument was examined and tested on the Meridian at Phoenix, Arizona, March 3rd, 1904, and was approved by the Surveyor-General.

I examine the adjustments of the Compass, and correct the level and collimation errors; then, to test the Solar apparatus by comparing its indications, resulting from Solar observations made during a. m., and p. m., hours with a true meridian determined by an observation on Polaris, I proceed as follows,

Sept. 4th, 1904, at the Cor. of Tps. 2 and 3 N., Rs. 30 and 31 E., as heretofore established^{36"} by me in lat. $33^{\circ} 33' 4''$ N., longitude $109^{\circ} 10' 30''$ W., from Greenwich, at 3 hours, 15 minutes, p. m., l. m. t., by my watch which is correct I set off $33^{\circ} 33' 1''$ N., on the lat. arc., and $7^{\circ} 06' 30''$ N., on the decl arc and determine a true meridian with the solar, and mark a point thereof on a stone set firmly in the ground 5 chs. N. of my station.

At 8 hours, 35 minutes, p. m., I observe Polaris at eastern elongation, in accordance with the Manual of surveying instructions, and mark a point on the line thus determined on a plug drive in the ground 5 chs. north of my station.

Sept. 5th, 1904, at 7 hours and 00 minutes, I lay off the azimuth of Polaris $1^{\circ} 26' 7''$ to the west and mark the Meridian thus determined by cutting a small notch on the stone set Sept. 4th, on which the meridian falls 0.28 ins., west of the meridian established by the Polaris observation.

At 7 hours, 17 minutes, a. m., l. m. t., I set off $6^{\circ} 53' N.$, on the decl. arc, $33^{\circ} 33' N.$, on the lat. arc., and determine a meridian with the Solar, by a cross on the stone already set 5 chs. N. of my station this mark falls 0.15 ins., west of the meridian established by the Polaris observation.

The solar apparatus by a. m., and p. m., observations, defines positions for true meridian practically coinciding with the Polaris observation, Therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of this meridian at 7hs. and 30' a. m., as corrected is $17^{\circ} 10' E.$

I begin at the cor. of Tps. 2 and 3 N., Rs. 30 and 31 E., thence I run,

NORTH, on a true line on the west boundary of the township, bet. secs. 31 and 36.

Over rough mountainous country thro. heavy timber.

Descending over rough mountains, through heavy timber.

2.

West Boundary of T. 3 N., R. 31 E., Continued.

Chs.	
8.05	Gully, 10 lks. wide, course N. W. and ascend.
25.00	Top of ridge bears S. E. and N. W. and descend.
34.00	Gully, 10 lks. wide, course N. W. and ascend.
38.00	Top of ridge bears S. E. and N. W. and descend.
40.00	Set a malpais stone, 18 x 14 x 8 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence, An oak, 7 ins., in diam. brs. S. 60° E., 11 lks. dist. mkd. 1/4 S. 31 B. T. A Cedar, 6 ins., in diam. brs. S. 72° W., 15 lks. dist. mkd. 1/4 S. 36 B. T.
46.10	Gully 10 lks. wide, course N. W.
53.10	Over bottom land.
54.50	Cross Blue River running stream 40 lks. wide, course S. W.
55.50	Road bears N. E. and S. W. from Clifton to Luna Valley.
56.00	Leave bottom and ascend over mountainous land.
80.00	Set a limestone, 36 x 36 x 12 ins., 27 ins., in the ground for the corner of secs. 25, 30, 31 and 36, marked with 1 groove on the S. and 5 grooves on the N. edges, whence, A pinon, 6 ins., in diam. brs. N. 5° E., 82 lks. dist. mkd. T. 3 N., R. 31 E., S. 30 B. T. A juniper, 12 ins., in diam. brs. S. 31° E., 72 lks. dist. mkd. T. 3 N., R. 31 E., S. 30 B. T. A pinon, 5 ins., in diam. brs. S. 21° W., 70 lks. dist. mkd. T. 3 N., R. 30 E., S. 36 B. T. A Cedar, 7 ins., in diam. brs. N. 7 1/2° W., 28 lks. dist. mkd. T. 3 N., R. 30 E., S. 25 B. T. Land mountainous 77.00 chs. Bottom land 3.00 chs. Scattering timber on mountain slope of cedar, pinon and juniper, dense River timber on bottom land. Soil 4th rate on mountain 2nd rate in bottom. Oak underbrush.

	North bet. secs. 25 and 30 On a true line over mountainous land ascending.
	Through heavy timber.
4.10	Gully, 10 lks. wide, course S. W. and ascend.
12.00	Top of ridge bears N. E. and S. W. and descend.
17.70	Gully 10 lks. wide, course N. E.
30.40	Over bottom land.
35.55	Cross Grant Creek, 12 lks. wide, running stream, course S. E.
39.00	Leave bottom land and ascend.
40.00	Set a malpais stone, 20 x 12 x 12 ins., 14 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence, A juniper, 15 ins., in diam. brs. N. 29° E., 14 lks. dist. mkd. 1/4 S., 50 B. T. A Cedar, 6 ins., in diam. brs. S. 73° W., 44 lks. dist. mkd. 1/4 S. 25 B. T. Land rough and mountainous 31.40 Bottom land 8.60 chs. Dense juniper and pinon timber 40.00 chs. Soil 2nd to 4th rate. Oak and scrub cedar underbrush.
	Sept. 5th, 1904.

	The survey of the west boundary of this Tp. was discontinued at this point, as it was not necessary to carry the line further north in order to embrace the agricultural lands and settlers lying along or within the Canon of the Blue River.

3.

East boundary of Tp. 3 N., R. 31 E. Arizona.

- Sept. 6th, 1904, at the cor. of Tps. 2 and 3 N., Rs. 31 and 32⁶ as heretofore established and described by me at 8 hours 16 minutes a.m. l. m. t., I set off $33^{\circ} 33'$ N., on the lat. arc and $6^{\circ} 28' \frac{1}{2}$ N., on the decl. arc and determine a true meridian with the Solar, thence I run,
- North, on a true line on the east boundary of the Tp. bet. secs. 36 and 31.
- 11.48 Ascending steep S. slope of mountain through pine and pinon and dense oak brush.
- 24.00 To top of mountain ridge, thence over rolling mountains through heavy pine.
- 40.00 Cross wash, 15 lks. wide, course N. W. and ascend. Set a malpais stone, 20 x 12 x 4 ins., 15 ins., in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on the W. face, whence,
- A pine, 8 ins., in diam. brs. N. $63 \frac{1}{2}^{\circ}$ E., 51 lks. dist. mkd. $\frac{1}{4}$ S. 31 B. T.
- A pine, 10 ins., in diam. brs. N. $19 \frac{1}{2}^{\circ}$ W., 110 lks. dist. mkd. $\frac{1}{4}$ S. 36 B. T.
- 49.00 De scending.
- 80.00 Cross wash, 5 lks. wide, course N. W. and ascend. Set a malpais stone, 24 x 10 x 4 ins., 18 ins., in the ground for the cor. of secs. 25, 30, 31 and 36, marked with 1 groove on the S. and 5 grooves on the N. edges, whence,
- A pine, 12 ins., in diam. brs. N. $50 \frac{1}{4}^{\circ}$ E., 22 lks. dist. mkd. T. 3 N., R. 32 E., S. 30 B. T.
- A juniper 8 ins., in diam. brs. S. $42 \frac{3}{4}^{\circ}$ E., 89 lks. dist. mkd. T. 3 N., R. 32 E., S. 31 B. T.
- A pine, 14 ins., in diam. brs. S. $0^{\circ} 45'$ W., 82 lks. dist. mkd. T. 3 N., R. 31 E., S. 36 B. T.
- A juniper, 8 ins., in diam. brs. N. $18 \frac{1}{2}^{\circ}$ W., 35 lks. dist. mkd. T. 3 N., R. 31 E., S. 25 B. T.
- Land mountainous 80.00 chs.
- Soil, rocky and 4th rate.
- Timber pine and pinon. dense 80. chs.
- Dense ~~xxx~~ oak brush. 80. chs.
-
- 40.00 North on a true line bet. secs. 25 and 30. Over rollin mountain top through heavy pine timber. Set a malpais stone, 18 x 9 x 4 ins., 12 ins., in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on the W. face, whence,
- A juniper, 12 ins., in diam. brs. N. 84° E., 40 lks. dist. mkd. $\frac{1}{4}$ S. 30 B. T.
- An oak, 6 ins., in diam. brs. S. 55° W., 30 lks. dist. mkd. $\frac{1}{4}$ S. 25 B. T.
- 72.50 Descend steep N. slope of mountain into Cow Creek Canon.
- Land becomes so rough that it is almost impracticable to survey.
- 80.00 Set a malpais stone, 24 x 12 x 4 ins., 18 ins., in the ground for the cor. of secs. 19, 24, 25 and 30 marked with 2 grooves on the S. and 4 grooves on the N. edges, whence,
- A pine, 6 ins., in diam. brs. N. $63 \frac{1}{4}^{\circ}$ E., 69 lks. dist. mkd. T. 3 N., R. 32 E., S. 19 B. T.
- A pine, 16 ins., in diam. brs. S. $28 \frac{1}{4}^{\circ}$ E., 49 lks. dist. mkd. T. 3 N., R. 32 E., S. 30 B. T.
- A pine, 6 ins., in diam. brs. S. $76 \frac{3}{4}^{\circ}$ W., 24 lks. dist. mkd. T. 3 N., R. 31 E., S. 25 B. T.
- A pine, 6 ins., in diam. brs. N. $45 \frac{1}{4}^{\circ}$ W., 45 lks. dist. mkd. T. 3 N., R. 31 E., S. 24 B. T.
- Land rough and precipitous mountains 80. chs.
- Soil rocky and 3rd. rate.
- Timber dense pine, pinon, oak and cedar. 80. chs.
-

4.

East boundary of Tp. 3 N., R. 31 E., Continued.

4

	At the cor. of secs. 19, 24, 25 and 30, just esta. by me at 12 o'clock noon I set off $6^{\circ} 17' N.$, on the decl. arc and observe the Sun on the meridian the resulting latitude is $33^{\circ} 35' N.$
	Thence I run, North on a true line bet. secs. 19 and 24, Over Over steep N. slope through pine timber.
6.00	Change to N. E. slope and descend mountain along same.
10.95	Cross a log fence bears N. E. and S. W.
17.95	Cross a wash, 15 lks. wide, course N. E.
22.80	Cross drain, 3 lks. wide, course E.
28.90	Steep precipitous descent into Cow Creek Canon, perpendicular walls, as the point for $1/4$ sec. cor. at 40.00 chs. falls in the bottom of Canon, at this point on a rock in place 14, 10 x 6 ft. above ground I mark a cross at exact point and $1/4 W.C.$, W. of same for witness $1/4$ section corner bet. secs. 19 and 24, whence,
	A pine, 10 ins., in diam. brs. S. $23^{\circ} E.$, 88 lks. dist. mkd. W. C. $1/4 S.$ 19 B. T.
	A pine, 6 ins., in diam. brs. S. $23 3/4^{\circ} W.$, 25 lks. dist. mkd. $1/4 S.$ 24 B. T. W.C.
49.20	Bottom of Cow Creek Canon, wash is 20 lks. wide, course N. W., and begin steep ascent.
70.73	Top of ridge bears E. and W. and descend.
80.00	Set a malpais stone, 20 x 6 x 4 ins., 15 ins., in the ground for the cor. of secs. 13, 18, 19 and 24 marked with 3 notches on the S. and E. edges, whence,
	A pine, 10 ins., in diam. brs. N. $54 3/4^{\circ} E.$, 66 lks. dist. mkd. T. 3 N., R. 32 E., S. 18 B. T.
	A pine, 8 ins., in diam. brs. S. $32^{\circ} E.$, 23 lks. dist. mkd. T. 3 N., R. 32 E., S. 19 B. T.
	A pine, 12 ins., in diam. brs. S. $66 3/4^{\circ} W.$, 56 lks. dist. mkd. T. 3 N., R. 31 E., S. 24 B. T.
	A pine, 10 ins., in diam. brs. N. $53 3/4^{\circ} W.$, 15 lks. dist. mkd. T. 3 N., R. 31 E., S. 13 B. T.
	Land very rough mountains 80.00 chs. Soil rocky and 3rd rate. Dense pine timber.
	Sept. 6, 1904.

	Sept. 7th, 1904, at $7^{\circ} 15'$ a. m., 1. m. t., I set off $33^{\circ} 36' N.$, on the lat. arc and $6^{\circ} 03' N.$, on the decl. arc and determine a true meridian with the solar at the cor. of secs. 13, 18, 19 and 24 just established by me the previous day.
	Thence I run, North on a true line bet. secs. 13 and 18 Descending steep N. slope of Mountain thro. dense pine timber and scrub cedar and oak brush.
5.70	Cross wash, 10 lks. wide, course W. and ascend.
11.36	Top of ridge bears E. and W. and over rolling mountain top.
40.00	Set a malpais stone, 18 x 8 x 8 ins., 12 ins., in the ground for $1/4$ sec. cor. marked $1/4$ on the W. face, whence,
	A juniper, 16 ins., in diam. brs. S. $31^{\circ} E.$, 61 lks. dist. mkd. $1/4 S.$ 18 B. T.
	A pine, 12 ins., in diam. brs. S. $67 1/2^{\circ} W.$, 87 lks. dist. mkd. $1/4 S.$ 13 B. T.
	Country becomes badly broken and very precipitous.
68.00	Wash bottom of Steeple Canon, 10 lks. wide, a small amount of water flows here, course W.
68.32	Ascend out of Canon bottom.
80.00	Set a malpais stone, 28 x 12 x 8 ins., 20 ins., in the ground for the cor. of secs. 7, 12, 13 and 18, marked with 4 grooves on the S. and 2 grooves on the N., edges, whence,

5.

East boundary of Tp. 3 N., R. 31 E., Continued.

chs.

A juniper, 6 ins., in diam. brs. N. 63 1/4° E.,
 55 lks. dist. mkd. T. 3 N., R. 32 E., S. 7 B. T.
 A pinon, 4 ins., in diam. brs. S. 27 3/4° E.,
 14 lks. dist. mkd. T. 3 N., R. 32 E., S. 18 B. T.
 A pinon, 10 ins., in diam. brs. S. 21 1/2° W.,
 135 lks. dist. mkd. T. 3 N., R. 31 E., S. 13 B. T.
 A juniper, 6 ins., in diam. brs. N. 76 3/4° W.,
 92 lks. dist. mkd. T. 3 N., R. 31 E., S. 12 B. T.
 Land rough mountains 80 chs.
 Soil rocky and 4th rate.
 Tomber cedar pine pinon and juniper 80.00 chs.
 Some brush.

 North on a true line bet. secs. 7 and 12.
 Ascending over rolling mountains through cedar,
 juniper and pinon timber.

15.75

Drain 8 lks. wide, course W.

26.00

Drain 8 lks. wide, course W.

40.00

Set a malpais stone, 24 x 12 x 4 ins., 18 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence,

A juniper, 40 ins., in diam. brs. S. 52° E.,
34 lks. dist. mkd. 1/4 S. 7 B. T.

A pine, 14 ins., in diam. brs. S. 64 1/2° W.,
105 lks. dist. mkd. 1/4 S. 12 B. T.

51.90

Cross wash, 12 lks. wide, course N. W. and ascend.

53.75

~~Cross~~ Cross wash, 12 lks. wide, course N. W. and ascend.

58.35

Cross wash, 12 lks. wide, course N. W. and ascne.d

66.00

Cross wash, Dam Canon, 15 lks. wide, course W.

80.00

Set a malpais stone, 18 x 8 x 3 ins., 12 ins., in the ground for the cor. of secs. 1, 6, 7 and 12, marked with 5 grooves on the S. and 1 groove on the N. edges, whence,

A pinon, 8 ins., in diam. brs. N. 61° E., 12 lks. dist. mkd. T. 3 N., R. 32 E., S. 6 B. T.

A jMniper, 6 ins., in diam. brs. S. 28 3/4° E.,
111 lks. dist. mkd. T. 3 N., R. 32 E., S. 4 B. T.

A pinon, 4 ins., in diam. brs. S. 65 3/4° W.,
mkd. 21 lks. dist. mkd. T. 3 N., R. 31 E., S. 12 B. T.

A pinon, 4 ins., in diam. brs. N. 29 3/4° W.,
41 lks. dist. mkd. T. 3 N., R. 31 E., S. 1 B. T.

Land rough mountains 80.00 chs.

Soil, rocky 4th rate.

Timber cedar, pine and pinon. Some brush. Sept. 7, 1904.

Sept. 8th, 1904, at 8 hours 20 minutes a. m., 1. m. t.
 I set off 33° 38' N., on the Lat arc, 5° 43 1/2' N.,
 on the Decl. arc and determine a meridian with the
 Solar at the corner of sections 1, 6, 7 and 12, estab-
 lished by me on Sept. 7th, thence I run North on a
 true line, bet. secs. 1 and 6.

40.00

Over gentle west slope of rough mountains.
Set a malpais stone, 18 x 10 x 4 ins., 12 ins., in the ground for 1/4 sec. cor marked 1/4 on the W. face, whence,

A juniper, 10 ins., in diam. brs. S. 18° W.,
16 lks. dist. mkd. 1/4 S. 1 B. T.

A juniper, 14 ins., in diam. brs. N. 81° E.,
42 lks. dist. mkd. 1/4 S. 6 B. T.

45.65

To a point, on the brink of Johnson Canon, impracticable to chain across; to determine the distance across

I set a flag on line on the N. side of the Canon, thence leaving a
 measure a base S. 58° 04' W., 16.19 chs. to a point
 whence the flag on line bears S. 20° 10' E., therefore
 the distance is Sine 20° 10' is to the sine of 78° 14'
 as 16.19 chs. the length of the base is to the dis.

Chs.	<p>of the required side or, .34475 is to .97898 as ^{16.19}16.91 is to X or 45.97 chs. which added to 45.65 chs, is qual to 91.62 chs. to point and flag on the N. side of Johnson's Canon, and as the Canon Slope or side walls thereof is very steep and broken, and it is impossible to reach the point for the Tp. Cor. I therefore, at this point,</p>
91.62	<p>Set a malpais stone, 20 x 10 x 10 ins., 14 ins., in the ground for witness corner to the Cor. of Tps. 3 and 4 N., Rs. 31 and 32 E., marked with 6 grooves on each edge and W. C. on the N. E, whence, A juniper, 10 ins., in diam. brs. N. 77° E., 40 lks. dist. mkd. T. 4 N., R. 32 E., S. 31 B. T.W.C. A pine, 6 ins., in diam. brs. S. 34 1/2° W., 34 lks. dist. mkd. T. 3 N., R. 31 E., S. 1 B.T.W.C. A juniper, 14 ins., in diam. brs. N. 33 1/4° W., 94 lks. dist. mkd. T. 4 N., R. 31 E., S. 36 B.T.W.C. No other trees within limits. Raise a mound of stone, 3 ft. base, 2 ft. high, S. of the Cor. Pits impracticable. Land mountainous 91.62 chs. Soil rocky and 4th rate. Timber, cedar, pine and pinon. Some cedar and oak underbrush.</p>
	<p>NOTE- The base line used in the triangulation at the 45.65 ch. point on this line was the longest possible owing to the topographic features of the country on the S. side and brink of Johnson's Canon.</p>
	<p>----- NORTH Boundary of T. 3 N., R. 31 E.</p>
17.00	<p>From the Witness Corner to the Cor. of Tps. 3 and 4 N., Rs. 31 and 32 E., just established, I run ^{589° 30' W.} West, on offset line, bet. secs. 1 and 36, descending along N. W. slope through cedar, pinon and juniper timber. At this point I run south to true line 11.62 chs, to a point where I set a malpais stone, 16 x 8 x 3 ins., 10 ins., in the ground to witness corner for Tps. 3 and 4 N., Rs. 31 and 32 E., marked with 6 grooves on the N. E. S. and W. edges, and W. C. whence, A pine, 6 ins., in diam. brs. N. 51 1/2° E., 151. lks. dist. mkd. W. C. T. 4 N., R. 32 E., S. 31 B.T. A pine, 5 ins., in diam. brs. S. 45° W., 64 lks. dist. mkd. W. C. S. 1 B. T. T. 3 N., R. 31 E. A Cedar, 4 ins., in diam. brs. S. 76 1/4° E., 23 lks. dist. mkd. W. C. S. 1 B. T., T. 3 N., R. 32 E. A juniper, 5 ins., in diam. brs. N. 21 1/2° W., 87. lks. dist. mkd. W. C. S. 36 B. T. T. 4 N., R. 31 E. Thence from this witness corner and point ^{589° 30' W.} west, on true line,</p>
26.25	<p>Cross a wash, 25 lks. wide, course S. and ascend.</p>
31.00	<p>Saddle bears N. and S. and along S. W. slope, of Johnson's Mountain.</p>
40.00	<p>Set a malpais stone, 18 x 12 x 6 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, whence, A pinon, 6 ins., in diam. brs. N. 25° W., 130 lks. dist. mkd. 1/4 S. 36 B. T. No to other trees within limits and raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of Cor. Pits impracticable.</p>
54.80	<p>Abandoned cabin 1.50 chs. S.</p>
56.10	<p>Cross rail fence bears N. and S.</p>
56.40	<p>" " " " " " "</p>
56.60	<p>Do.</p>
57.80	<p>Do.</p>

7. North boundary of T. 3 N., R. 31 E., Continued. 7

Chs.
58.15 Road bears N. and S. from Luna to Clifton.
58.50 Blue River, 20 lks. wide, running ^{course N. E.} stream and over bottom land through dense river brush and cottonwood and ash timber.

80. The point for cor. falls in a wash, 10 lks. wide, course N. E.

80.20 ✓ A malpais stone, 28 x 18 x 6 ins., 20 ins., in the ground for witness cor. to secs. 1, 2, 35 and 36, marked with W. C. 5 grooves on the W., and 1 groove on the E. edges, whence,
An oak, 4 ins., in diam. brs. N. 76 3/4° E., 89 lks. dist. mkd. W. C. T. 4 N., R. 31 E., S. 36 B.T.
An oak, 7 ins., in diam. brs. S. 60 3/4° E., 51 lks. dist. mkd. W. C. T. 3 N., R. 31 E., S. 1B.T.
An oak, 4 ins., in diam. brs. S. 29° W., 49 lks. dist. mkd. W.C. T. 3 N., R. 31 E., S. 2 B.T.
A juniper, 10 ins., in diam. brs. N. 8 1/4° W., 79 lks. dist. mkd. W. C. T. 4 N., R. 31 E., S. 35 B.T.
Land rough mountains or covered with dense timber
80.20 chs.
Soil 2nd to 4th rate.
Timber, cedar, pinon, juniper, pine, cottonwood and ash in River bottom.

Sept. 8th, 1904.

I discontinue the survey of this boundary at this cor. as its further prolongation is not necessary to include any settler, ~~or~~ agricultural or grazing land lying along or within the Canon of the Blue River.

General Description, T. 3 N., R. 31 E.

This township like the balance of the country surrounding and adjacent to the Canon of the Blue River is rough, precipitous and traversed by mountain ridges. The land is only fit for grazing purposes, except along the Canon of the Blue River, which widens in some places sufficient for the settlers to clear small tracts for agricultuaral purposes.

The township is covered with a good growth of pine, pinon, juniper and cedar timber. Cottonwoods and ash abound along the Canon Bottom and its tributary ravines and creeks.

The township at this season of the year is covered with a good growth of nutritious grasses.

John D. Nesse
U. S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by

John P. Hesse

....., 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 east, west and north boundaries of Pp. 3 N. Rg. 31 E.* showing the respective capacities in which they acted:

George W. Cassidy, Chainman.

A. A. Snyder, Chainman.

....., Moundman.

....., Moundman.

W. W. Oliver, Axman.

G. E. Wiswell, Axman.

W. H. Post, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

John P. Hesse

....., United States Deputy Surveyor, in surveying all those parts or portions of the *the east, west, and north boundaries of Pp. 3 N. Rg. 31 E.*

..... of the *Gila*

and Salt River 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*

George W. Cassidy, Chainman.

A. A. Snyder, Chainman.

....., Moundman.

....., Moundman.

W. W. Oliver, Axman.

G. E. Wiswell, Axman.

W. H. Post, Flagman.

Subscribed and sworn to before me this *8th* day of *September*, *1884*

John P. Hesse
U.S. Dep. Surveyor



No notary available

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BOOK 1883

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John F. Nesse, 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 17 day of June 1904, 1899, 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 east, west and north boundaries of T. 3 N. R. 31 E.

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

John F. Nesse
United States Deputy Surveyor.

Subscribed by said John F. Nesse, and sworn to before me }
this 2nd day of Nov, 1899 1904 }

Frank S. Ingalls
U.S. Sur Genl.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Theems, Arizona, April 21, 1905
1899

The foregoing field notes of the survey of the north east and west sides of T. 3 N. R. 31 E. of the Gila and Salt River Base and Meridian in the Territory of Arizona

executed by John F. Nesse U.S. deputy Surveyor under his contract No. 121, dated June 17, 1904, 1899, 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.