

1880

Book "C"

BOOK 1880

FIELD NOTES

OF THE SURVEY OF THE

*Subdivisional lines of Township 1
North Range 31 East*

Retra cement S. bdy. sec. 31

1880

1880

Of the *Gila and Salt River* Meridian,

Territory of Arizona

AS SURVEYED BY

John G. Hesse, United States Deputy Surveyor,

Under his Contract No. *121*, dated *June 17, 1904*, 189

Survey commenced *August 12*, 18*04*

Survey completed *August 15*, 18*04*

NAMES AND DUTIES OF ASSISTANTS.

George W. Cassidy

Chairman

A. A. Snyder

Chairman

W. W. Olive

Chairman

G. E. Wiswell

Chairman

W. H. Post

Flagman

BOOK 1880

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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 subdivision lines of Twp. 1 N. Rg. 31 E.

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

Subscribed and sworn to before me this 1st
day of August 1904, 189



John G. 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 subdivision lines of Twp. 1 N. Rg. 31 E.

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

Subscribed and sworn to before me this 1st
day of August 1904, 189



John G. 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 subdivision lines of Twp. 1 N. Rg. 31 E.

W. H. Post, Flagman.

Subscribed and sworn to before me this 1st
day of August 1904, 189



John G. Hesse
U. S. Dep. Surveyor

No notary available

1. Retracement of the S. Bdy. of Sec. 31, T. 1 N., R. 31 E.

Chs.

Survey commenced August 12th, 1904, and executed with a W. and L. E. Gurley Solar Compass not numbered. 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.

The instrument was examined tested on the true meridian and was approved by the Surveyor General. for Arizona.

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

At the Cor. of Tps. 1 N., Rs. 30 and 31 E., on the Gila and Salt River Base line; latitude $33^{\circ} 23' N.$, I set off $14^{\circ} 59' 49'' N.$, on the decl. arc. and at 3 o'clock p. m., l. m. t., determine with the Solar a meridian and mark the point thereof, on a stone set firmly in the ground 5 chs. N. of my station.

At 10 h, .04 m., p. m. by my watch which has correct l. m. t. 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 driven in the ground 5 chs. N. of my station.

August 12th, 1904.

August 13- At 7h, 00m, a. m., l. m. t., I lay off the azimuth of Polaris $1^{\circ} 26'$ to the West, and mark the Meridian thus determined, by cutting a small groove, in the stone set August 12th, on which the Meridian practically coincides with the meridian determined with the Solar.

At 8 a. m., l. m. t., I set off $33^{\circ} 35' N.$, on the lat. arc and $14^{\circ} 48' 30'' N.$, on the decl. arc and mark a point in the meridian determined with the Solar by a cross on the stone already set 5 chs. N. of my station, this mark coincides with the Meridian established by the Polaris observation.

The Solar apparatus by p. m. and a. m. observations defines positions for meridians, which coincide with the meridian established by the Polaris observations, therefore, I conclude that the adjustment of the instrument is satisfactory.

The magnetic bearing of the True Meridian at 8 hours 30 mins. a. m., l. m. t., is N. $16^{\circ} 45' E.$, the Angle thus corrected gives the true mag. decl. $16^{\circ} 41' E.$

From the Standard Township Cor. already described, I retrace East on the Gila and Salt River Base line on the south boundary of Sec. 31 of T. 1 N., R. 31 E. Over rough east slope of mountains through scattering pines, juniper and oak timber.

10.30

Top of cliff 40 ft. high.

12.05

Road from Clifton to Blue Postoffice bears N. & E.

13.22

Boundary post No. 21, as described by the Surveyor-General.

14.90

Cross Blue River, 25 lks. wide, 3 ins., deep, running water. The width of the River bed at high water is about 230 links. *Course S.*

Cottonwood, elder and walnut along river bank.

2. Retracement of the S. boundary of Sec. 31 T. 1 N., R. 31E.

Chs.
 18.22 Leave River bottom, begin ascent of steep slope.
 22.90 Rock ledge
 43.33 Fell 4 lks. N. of a 1/4 sec. cor. witness corner, as described by the Surveyor-General, Continue East.
 40.24 Head of drain, course S.
 46.80 Top of ridge bears N. E. and S. W. about 450 ft. above River.
 58.40 Top and descend E. slope of ridge.
 64.40 Ravine 120 lks. wide, course S. S. E.
 81.41 Fell 6 lks. N. of boundary post No. 22, as described by the surveyor-general, which locates W.C. 92 lks E. of 1/4 sec. cor.
 True course of 1st half mile S. 89° 57' E. 41.81
 True course of last half mile S. 89° 58' E. 40.00
 Land mountainous, very rough and rocky.
 Soil 1st rate in river bottom on mt. slope 4th rate.
 Timber, Juniper, red cedar and oak on upland.
 Cottonwood, sycamore, ask, box elder and walnut in River bottom.

 As per my special instructions, I am authorized to survey designated lines that may be necessary to properly include all the agricultural and grazings lands lying along or within the Canon of the Blue River and as the said river would seem to traverse the Western portion of T. 1 N., R. 31 E.; I commence at the Standard Corner of Secs. 31 and 32 on the south boundary of the township, which corner is boundary post No. 22 of the Black Mesa Forest Reserve.

Thence I run,
 N. 0° 3' W.

Over mountainous land covered with scattering timber of juniper, pinon and cedar.

Descending.

15.25 Cross Ravine 45 lks. wide, course S. E.

Begin ascent.

31.05 Top of ridge bears N. E. and S. W.

Descend.

40.00 Set a malpais stone, 20 x 16 x 8 ins., 15 ins., in the ground for 1/4 sec. cor., marked 1/4 on the W. face, from which,

A cedar, 8 ins., in diam. brs. S. 68° E., 99 lks. dist. mkd. 1/4 S., 32 B. T.

A cedar, 8 ins., in diam. brs. N. 36° W., 130 lks. dist. mkd. 1/4 S., 31 B. T.

48.60 Ravine 75 lks. wide, course S. S. Easterly and ascend.

64.05 Top and descend into canon.

80.00 Set a malpais stone 20 x 18 x 10 ins., in a mound of stones for the corner of secs. 29, 30, 31 and 32, marked with 1 groove on the south and 5 grooves on the east edges.

I surround this corner by stones for it is impracticable on account of bed rock being near the surface to set it in the ground, ~~to its proper depth~~. whence,

A Cedar, 12 ins., in diam. brs. N. 77° 45' E., 220 lks. dist. marked T. 1 N., R. 31 E., S. 29 B. T.

A cedar, 4 ins., in diam. brs. S. 75° E., mkd. 69 lks. dist. T. 1 N., R. 31 E., S. 32 B. T.

A cedar, 8 ins., in diam. brs. S. 74 1/2° W., 45 lks. dist. mkd. T. 1 N., R. 31 E., S. 30 B. T.

A Cedar, 10 ins., in diam. brs. N. 42 1/2° W., 45 lks. dist. mkd. T. 1 N., R. 31 E., S. 30 B. T.

Land mountainous 80.00 chains.

Soil rocky and 4th rate.

Timber pine, pinon, oak and juniper 80.00 chs.

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

3. Subdivisional lines of T. 1 N., R. 31 E., Ariz. Con.

Chs.	
41.41	Set temp. 1/4 sec. cor.
81.38	Intersect the west boundary of the Tp. at the corner of sections 25, 30, 31 and 36, as heretofore established by me, thence I run. East, on a true line, bet. secs. 30 and 31. Ascending.
25.00	Top of ridge bears N. E. and S. W. and descend.
36.70	Cross wash, 20 lks. wide, course S. E. and ascend along s. w. slope of mountain ridge.
41.38 ✓	Set a malapis stone, 18 x 12 x 5 ins., 12 ins., in the ground for 1/4 sec. cor., marked 1/4 on the N. face, from which, A Cedar, 6 ins., in diam. brs. N. 57 1/2° W., 196 lks. dist. marked 1/4 S., 30 B. T. No other trees in limits. Raise a mound of stone, 3 1/2 ft. base, 1 1/2 ft. high N. of Cor. Pits impract. Over rolling mountain slope.
81.38	The corner of sections 29, 30, 31 and 32 as heretofore described. Land mountainsous 81.38 chains. Timber, cedar, and pinon. Soil 4th rate and rocky.

	N. 0° 03' W., on a true line bet. secs. 29 and 30. Over mountainous land through scattering timber of juniper, pinon and cedar.
6.10	Along east slope of mountain through heavy oak brush. Cross ravine, 25 lks. wide, course easterly.
14.50	Cross ravine 30 lks. wide, course southeasterly.
40.00 ✓	Set a malpais stone, 18 x 12 x 7 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, from which A Juniper 8 ins., in diam. brs. N. 82° E., 169 lks. dist. marked 1/4 S., 29 B. T. No other trees within limits and raise a mound of stone 3 ft. base, 1 1/2 ft. high, W. of the Cor. Ascending. Pits. Impract.
47.00	Top of ridge bears N. E. and S. W. and descend.
64.50	Cross a ravine which runs easterly it is 30 lks. wide. Begin ascent.
73.00	Top of ridge bears E. and W.
80.00 ✓	Set a malpais stone, 24 x 12 x 8 ins., 18 ins., in the ground for the corner of sections 19, 20, 29 and 30, marked with 2 grooves on the S. and 5 grooves on the east edges, from which, A Juniper 16 ins., in diam. brs. N. 80° E., 13 lks. dist. marked T. 1 N., R. 31 E., S. 20 B. T. A Cedar, 6 ins., in diam. brs. S. 43° E., 118 lks. dist. marked T. 1 N., R. 31 E., S. 29 B. T. A Juniper, 24 ins., in diam. brs. S. 13° W., 190 lks. dist. marked T. 1 N., R. 31 E., S. 30 B. T. A Juniper 12 ins., in diam. brs. N. 65° W., 286 lks. dist. marked T. 1 N., R. 31 E., S. 19 B. T. Land broken mountains 80.00 chains. Soil, rocky and 4th rate. Timber scattering cedar, juniper and pinon.

40.00	West, on a random line bet. secs. 19 and 30.
81.44	Set temp. 1/4 sec. cor. Intersect the west boundary of the Tp. at 15 lks. N. of the Corner of sections 19, 24, 25 and 30. Thence I run, N. 89° 54' E., on a true line bet. secs. 19 and 30. Over steep east slope of mountain through heavy oak brsuh and scattering pinon and cedar timber.
41.44 ✓	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

4.

Subdivisional lines of T. 1 N., R. 31 E., Ariz. Con.

Chs.

from which,

A pinon, 12 ins., in diam. brs. N. 1° E., 95 lks. dist. marked 1/4 S., 19 B. T.

A pinon, 30 ins., in diam. brs. S. 33° E., 15 lks. dist. mkd. 1/4 S. 30 B. T.

42.10 Top of ridge bears N. and S. descend.

81.44 The Corner of sections 19, 20, 29 and 30, heretofore described

Land mountainous 81.⁴⁴ chains.

Timber scattering pinon, juniper and cedar. 80.chs. Oak underbrush.

Soil, rocky and 4th rate.

August 12th, 1904.

August 13- At 7 a. m., 1. m. t. I set off 33° 25' N., on the lat. arc., 14° 43' 25" N., on the decl. arc and determine a true meridian with the solar at the corner of sections 19, 20, 29 and 30, thence I run,

N. 0° 03' W., on a true line bet. secs.

19 and 20, over mountainous land through pinon, cedar, juniper and oak underbrush.

3.50 Ravine 20 lks. wide, course S. E. and ascend steep S. slope of mountain.

28.75 Ravine 20 lks. wide, course easterly.

34.70 Ravine 15 lks. wide, course southeasterly.

37.00 Ravine 15 lks. wide, course southeasterly.

40.00 Set a malpais stone 18 x 12 x 10 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, whence

A pinon, 7 ins., in diam. brs. N. 7 1/2° E., 146 lks. dist. marked 1/4 S. 20 B. T.

A pinon, 6 ins., in diam. brs. N. 24 1/2° W., 231 lks. dist. mkd. 1/4 S., 19 B. T.

61.00 Top of ridge bears N. E. and S. W.

75.75 Fence bears E. and W.

80.00 Set a malpais stone 24 x 10 x 8 ins., 18 ins., in the ground for the corner of sections 17, 18, 19 and 20 marked with three grooves on the S. and 5 grooves on the E. edges, whence,

A pinon, ~~79~~^{ins. in diam.} lks. dist. brs. N. 35 1/2° E., mkd. 19 lks. dist T. 1 N., R. 31 E., S. 17 B. T.

A pinon, 5 ins., in diam. brs. S. 45 3/4° E., 23 lks. dist. mkd. T. 1 N., R. 31 E., S. 20 B. T.

A pinon, 8 ins., in diam. brs. S. 55 1/2° W., 29 lks. dist. mkd. T. 1 N., R. 31 E., S. 19 B. T.

A pinon, 4 ins., in diam. brs. N. 27° W., 74 lks. dist. mkd. T. 1 N., R. 31 E., S. 18 B. T.

Land rough mountains 80. chains.

Soil rocky and 4th rate.

Timber, cedar and pinon 80.00 chains.

S. 89° 54' W., on a random line bet. secs. 18 and 19. Set temporary 1/4 sec. cor.

40.00 Intersect the west boundary of the Tp. 4 lks. N. of the corner of sections 13, 18, 19 and 24, thence I run, N. 89° 52' E., on a true line bet. secs. 18 and 19 over N. slope of rough mountains through heavy cedar and pinon timber.

19.08 Ravine 10 lks. wide, course N. W. and ascend.

27.23 Top of spur bears N. and S. and descend.

32.54 Ravine 25 lks. wide, course N. W. and ascend.

41.88 Set a malpais stone 30, x 24 x 8 ins., 22¹/₂ ins., in the ground for 1/4 sec. cor. marked 1/4 on the N. face, from which,

5.

Subdivisions in T. 1 N., R. 31 E., Ariz. Continued.

Chs.	A pinon, 14 ins. in diam. brs. N. 19 1/2° E., 78 lks. dist. mkd. 1/4 S. 18 B. T.
	A pinon, 5 ins., in diam. brs. S. 3 deg. W., 66 lks. dist. mkd. 1/4 S. 19 B. T.
	At this 1/4 sec. cor. I set off at 12 o'clock noon 14° 38' 36" N., on the decl. arc. the resulting latitude is 33° 25' 45" N.
42.25	Descending steep slope.
40.25	Top of spur bears N. and S. and descend.
45.45	Ravine 20 lks. wide, course N. E.
70.55	Wire fence bears N. W. and S. E.
70.60	Gully 10 lks. wide, course N. W. and ascend.
81.88	The corner of sections 17, 18, 19 and 20 as hereto- fore described. Land mountainous 81.88 chains. Timber pine, cedar and pinon. Soil, 4th rate rocky.

	N. 0° 03' W. on a true line bet. secs. 17 and 18. Along gentle west slope of broken mountains. Through heavy timber of pine, juniper and pinon.
27.00	Ravine 20 lks. wide, course N. 85° W.
29.00	Ravine 15 lks. wide, course westerly and ascend.
40.00	Set a malpais stone, 30 x 18 x 18 ins., 23 ins., in the ground to bed rock for 1/4 sec. cor. marked 1/4 on the W. face, whence, A cedar, 4 ins., in diam. brs. S. 42° E., 174 lks. dist. marked 1/4 S., 17 B. T.
	A Cedar, 4 ins., in diam. brs. S. 7 3/4° W., 150 lks. dist. mkd. 1/4 S. 18 B. T.
63.40	Ravine 10 lks. wide, course westerly.
80.00	Set a malpais stone, 28 x 18 x 12 ins., 21 ins., in the ground for the corner of sections 7, 8, 17 and 18 marked with 4 grooves on the south and 5 grooves on the east edges, from which, A Cedar, 7 ins., in diam. brs. N. 16 3/4° E., 52 lks. dist. mkd. T. 1 N., R. 31 E., S. 8 B. T.
	A Cedar, 4 ins., in diam. brs. S. 61° E., 5 lks. dist. mkd. T. 1 N., R. 31 E., S. 17 B. T.
	A Cedar, 4 ins., in diam. brs. S. 11 1/2° W., 44 lks. dist. mkd. T. 1 N., R. 31 E., S. 18 B. T.
	A cedar, 4 ins., in diam. brs. N. 49 3/4° W., 85 lks. dist. mkd. T. 1 N., R. 31 E., S. 7 B. T.
	Land mountainous 80.00 chains Soil rocky and 4th rate. Timber cedar and pinon 80.00 chains.
	August 13, 1904.

	August 14, 1904, I set off 33° 26' N., on the lat. arc. 14° 26' 04" N., on the decl. arc. at 6.30 a. m., 1. m. t. and determine a true meridian with the solar at the corner of sections 7, 8, 17 and 18. Thence I run S. 89° 54' W., on a random line bet. secs. 7 and 18.
40.00	Set temp. 1/4 sec. cor.
81.60	Intersect the west boundary of the tp. at 17 lks. N. of the corner of sections 7, 12, 13 and 18. Thence I run, N. 89° 45' E.
	On a true line bet. secs. 7 and 18. Over rough mountains through scattering timber.
9.54	Road bears N. and S. from Clifton to Blue Post office and Luna Valley.
10.02	Cross Blue River, 45 lks. wide, course S. running water.
41.58	Set a malpais stone, 24 x 12 x 8 ins., for 1/4 sec. Cor.

6. Subdivisions of T. 1 N., R. 31 E., Ariz. Continued.

chs.	18 ins., in the ground, marked 1/4 on the N. face, from which, A Cedar, 12 ins., in diam. brs. S. 44 1/2° W., 40 lks. dist. marked 1/4 S. 18 B. T. A Cedar, 14 ins., in diam. brs. N. 17 1/2° W., 39 lks. dist. mkd. 1/4 S., 7 B. T. Ascending.
46.00	Top of ridge bears N. and S. and descend.
67.14	Dry creek 25 lks. wide, course S. and ascend.
81.58	The corner of sections 7, 8, 17 and 18 heretofore described. Land rough mountains 81.58 chains. Timber scattering cedars and pinon, 81.58 chs. Soil, rocky and 4th rate. Oak underbrush scattering.

	N. 0° 03' W., on a true line bet. secs. 7 and 8. Along gently rolling mountains through scattering timber.
1.25	Ravine 10 lks. wide, course Southwesterly.
7.00	Ravine 15 lks. wide, course westerly.
17.25	Ravine 15 lks. wide, course southwesterly.
35.50	Dry creek 25 lks. wide, course S. W. thence along east slope of mountains.
40.00 ✓	Set a malpais stone, 18 x 12 x 10 ins., 12 ins., in the ground for 1/4 sec. cor. marked 1/4 on the W. face, from which, A pinon, 5 ins., in diam. brs. S. 45 1/4° E., 153 lks. dist. mkd. 1/4 S. 8 B. T. A Cedar, 10 ins., in diam. brs. S. 59° W., 150 lks. dist. mkd. 1/4 S. 7 B. T.
41.70	Ravine 10 lks. wide, course E.
53.25	Ravine 12 lks. wide, course E.
57.10	Ravine 10 lks. wide, course E.
69.60	Ravine 10 lks. wide, course easterly.
80.00 ✓	Malapis stone 30 x 14 x 8 ins., 24 ins., in the ground fr the corner of sections 5, 6, 7 and 8 marked with 5 grooves on the S. and E edges, from which, A juniper, 14 ins., in diam. brs. N. 26 3/4° E., 156 lks. dist. mkd. T. 1 N., R. 31 E., S. 5 B. T. A Juniper, 15 ins., in diam. brs. S. 16° E., 237 lks. dist. mkd. T. 1 N., R. 31 E., S. 7 B. T. A cedar, 4 ins., in diam. brs. S. 19° W., 108 lks. dist. mkd. T. 1 N., R. 31 E., S. 7 B. T. A Juniper 8 ins., in diam. brs. N. 10 1/2° W., 184 lks. dist. mkd. T. 1 N., R. 31 E., S. 6 B. T. Land rough and gentle mountains 80.00 chains. Soil rocky and 4th rate. Timber scattering juniper, pinon and cedar.

40.00	S. 89° 45' W., on a random line bet. secs. 6 and 7. Set temporary 1/4 sec. cor.
81.55	Intersect the W. boundary of the Tp. at 28 lks. S. of the corner of sections 1, 6, 7 and 12. Thence I run N. 89° 57' E. on a true line bet. secs. 6 and 7 over rolling mountains. east slope.
3.74	Gully 10 lks. wide, course S. E.
23.35	Road from Clifton to Luna Valley bears N. And S. Descend east slope of mountains.
23.53	Corral.
32.49	Cross Blue River course S., 60 lks. wide, running water 4 ins. deep., thence over bottom land.
33.20	Leave bottom land and ascend.
41.35 ✓	I mark a X on a malpais rock in place, 48 x 30 x 8 ins., above ground, for 1/4 sec. cor. mkd. 1/4 on

Subdivisions of T. 1 N., R. 31 E., Continued.

<p>Chs. 68.50 81.55</p>	<p>On the N. side of the cross, whence, A cedar, 9 ins., in diam. brs. N. 55° E., 33 lks. dist. mkd. 1/4 S., 6 B. T. A Cedar, 6 ins., in diam. grs. S. 1° E., 29 lks. dist. mkd. 1/4 S. 7 B. T. Ascending. Top of ridge bears N. and S. The corner of sections 5, 6, 7 and 8 heretofore described. Land mountainous rough 81.⁵⁵ chs. Soil rocky and 4th rate. Timber scattering pine juniper and pinon some cedar. August 14th, 1904.</p>

<p>40. 80.38</p>	<p>August 15, 1904, at 7 a. m., l. m. t., I set off 33° 27' 1/2" N., on the lat. arc and 14° 07' 27" N., on the decl. arc and determine a true meridian with the solar ath the corner of sections 5, 6, 7 and 8 Thence I run, N. 0° 03' W., on a random line bet. secs. 5 and 6. Set temp. 1/4 sec. cor. Intersect the north boundary of the Tp. at a point 35 fks. E. of the cor. of secs. 5, 6, 31 and 32 thence I run, S. 18' E., on a true line bet. secs. 5 and 6. Over rough mountains through heavy timber. Gully 10 lks. wide, course S. W. Top of spur bears E. and W. Gully 10 lks. wide, course S. W. Gully 10 lks. wide, course S. W. and ascend. Dry creek, 60 lks. wide, course S. W. and ascend. Set a malpais stone, 18 x 12 x 10 ins., 12 ins., in the ground for 1/4 sec. cor marked 1/4 on the W. face, from which, An Oak 5 ins., in diam. brs. S. 61 1/2° E., 31 lks. dist. mkd. 1/4 S. 5 B. T. An oak, 4 ins., in diam. brs. S. 69 1/2° W., 38 ls. dist. mkd. 1/4 S. 6 B. T. Top of spur bears E. and W. Ravine 10 lks. wide, bears E. and W. and ascend. Top of ridge bears E. and W. ascend. The corner of secs. 5, 6, 7 and 8. as heretofore described. Land rough mountains, 80.38 chains. Soil rocky and 4th rate. Timber, cedar, oak and pinon 80.38 chains. August 15th, 1904.</p>
<p>0.61 3.04 5.20 11.40 33.30 40.38</p>	<p>-----</p>

General Description.

There are no settlers in this township.
 The subdivided portion of this township is rough
 and mountainous as it covers the eastern breaks of
 the canon of the Blue River.
 The soil on the mountains is generally rocky
 covered with a growth of pinon, cedar and oak brush.
 Along the Blue River there are aspen, ash and
 cottonwood. The township is worthless except for
 grazing purposes except along the bottom of the Canon
 where small pieces of land are cleared for cultivation.

John P. Nesse
 U. S. Deputy Surveyor.

LIST OF NAMES.

A list of the names of the individuals employed by John F. 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

subdivision lines of Dp. 1 N. Rg. 31 E.

showing the respective capacities in which they acted:

George W. Cassidy, Chainman.

G. G. Snyder, Chainman.

....., Moundman.

....., Moundman.

W. W. Oliver, Axman.

G. E. Wiswell, Axman.

W. H. Fort, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John F. Hesse

....., United States Deputy Surveyor, in surveying all

those parts or portions of the the subdivision lines of Dp. 1 N. Rg. 31 E.

..... of the Gila

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. Fort, Flagman.

Subscribed and sworn to before me this 15th day of August, 1904



John F. Hesse
U. S. Dep. Surveyor

No notary available

BOOK 1880 FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John F. Hesse, 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, 189, 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 _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of T. 1 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. Hesse
United States Deputy Surveyor.

Subscribed by said John F. Hesse and sworn to before me }
this 17th day of June, 189 1904 }

Frank S. Ingalls
U. S. Surveyor Genl.



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Greening Arizona, April 21st 1904

The foregoing field notes of the survey of the Subdivisional lines of T. 1 N. R. 31 E. of the Gila and Salt River Base and Meridian, Territory of Arizona.

executed by John F. Hesse U. S. deputy Surveyor under his contract No. 121, dated June 17, 1904, 189, 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.