BOOK 3863

FIELD NOTES

OF THE SURVEY OF THE

	formed by
	Part of the SUBDIVISION Lines of
	Tate of the population nines of
•	Township 34 North, Range 3 East
	·

	Of the Gila and Salt River Base and Meridian,
In the	e State ofArizona
	EXECUTED BY
	·
	Benjamin J. Kinsey, U.S.Surveyor
In the	capacity of U.S. Surveyor, under Special Instructions dated May 11
issued	by the District Cadastraly Engineer to govern surveys included in
	46. Arizona, which were approved by the Commissioner of the General
Office,	, May 20 , 1927, and Assignment Instructions dated July 8 ,
	Survey commenced September 15 , 1927

18

Book"C" Group 146 - Arizona

Land within Grand Canyon National Park.
Land within Kaibab National Forest and Grand Canyon National Game Preserve.

BOOK 3863

INDEX DIAGRAM.

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Surveyed under this group.

Accepted surveys.

____Unsurveyed.

Book "C"

Group 146 Arizona

Township 34 North, Range 3 East

DATE DIAGRAM

1927

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. Surveyed by Benjamin U. Kinsey, U.S. Surveyor, on dates shown thereon.

- Surveyed under this group. Notes and dates in other books.

- Accepted surveys.

_ Unsurveyed.

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The surveys herein described were executed by Benjamin J. Kinsey, U.S. Surveyor, on dates shown on diagram on page 1 hereof, using Buff transit No. 9940; the instrument is equipped with the Smith solar attachment and otherwise conforms to the standard requirements of the General Land Office. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.

PRELIMINARY FIELD TEST of Buff Transit No.9940

September, 18, 1927:
In camp near the 4 sec. cor. of secs. 18 and 19, T.
34 N., Range 3 E., in latitude 36 20214 N. and longitude 112 08 W., examine the adjustment of the instrument and find no error; then, to test the workings
of the solar attachment, proceed as follows:

At 7h.52m., p.m., l.m.t., observe Polaris at eastern elongation, making four obsns., two each with the telescope in direct and reversed positions and marking the mean point in the line thus determined by a tack set in top of a peg, driven in ground about 5 chsm N. Azimuth of Polaris at eastern elongation= 1°20'59".

Sept. 19, 1927

Laynoff the szimuth of Poleris 1:21 to the west, and mark the meridian thus determined by a tack in a meridian thus determined by a tack in a set topeg driven: firmly in the ground, about 5 chs. N. At 8h.00m., a.m., app.t., set off 36°20'N., on the lat. arc; 1°44½'N., on decl. arc and determine a meridian with the solar which is found to agree with the true meridian.

At 12h.00m., app.noon, with the lat. are unchanged, observe the sun on the meridian: the resultant reading of the decl. are is 11° 40".N., which agrees with the computed decl. of the sun.

At 3h.00m., p.m., app.t., with lat. arc unchanged, set off 1°37'N., on the decl. arc and determine a meridian with the solar which is if dund to agree with the true meridian.

- As all of the obsns. taken during the usual hours of solar work agree within l' of the true meridian conclude that the adjustment of the solar is satisfactory.
- All measurements are made on the shope, the vertical angle determined and the slope distances properly reduced to horizontal measurements.
- The measurements are made with a Lufkin steel tape 5 chs in length, compared with a Lufkin standard and found correct.

Land, rolling, mountainous and level. Soil, rocky 3rd. rate. Timber, fir, spruce, aspen and yellow pine. Undergrowth, juniper brush.

East, on true line, bet. secs. 17 and 20, on Park Bdy.

Over rolling land, thru heavy timber and scattering undergrowth.

Shellow draw course N Asc. 23 ft. over NW slove.

0.50 | Shallow draw, course N. Asc. 23 ft. over NW slope. 3.50 | Spur, slopes N. Desc. 23 ft. over NE slope.

Survey of Part of the Subdivision Lines

of (Grand Canyon National Park Rdy.) Chains Draw, course NW. Asc. 108 ft. over NW slope.

Spur, slopes N. Desc. 127 ft. over NE slope.

Draw, course NE. Asc. gradual NW slope to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in

the ground for the 4 sec. cor. of secs. 17 and 20, with 8.20 20.00 33.20 40.00 brass cap mkd. · 1 S 17 S 20 1927 from which, an aspen, 8 ins. in diam., brs. N.48 E., 35 lks. dist., mkd. \frac{1}{4} S17 BT an aspen, 6 ins. in diam., brs. S.44 E., 46 lks. dist., mkd. \frac{1}{4} S20 BT Asc. gradual NW slope. Asc. gradual NW slope.
Ridge, brs. NE-SW. Desc. 81 ft. overNE. slope.
Draw, course S.80°E. Desc. along the N. edge of same.
Junction of draw from SW; thence NE.
Asc. 23 ft. over NW slope.
Toe of spur, from S. Desc. gradual NE slope.
Shallow draw, course NW.
Asc. gradual SW slope to
Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 16, 17, 20 and 21, with brass cap mkd. 50.30 65.00 73.00 75.00 77.40 80.00 brass cap mkd. T34N R3E \$17₁\$16 \$20 S21 1927 from which a fir, 6 ins. in diam., brs. N.70°E., 19 lks. dist., mkd. T34N R3E S16 BT from which, a fir, 12 ins. in diam., brs. S.18°E., 3 lks. dist., mkd. T34N R3E S21 BT a fir, 14 ins. in diam., brs. S.211°W., 29 lks. dist., mkd. T34N R3E S20 BT an aspen, 6 ins. in diam., brs. N.19°W., 20 lks. dist., mkd. T34N R3E S17 BT Land, rolling. Soil, rocky 3rd. rate. Timber, fir, aspen, yellow pine and spruce. Undergrowth, juniper brush. Dast, oh true line, bet. secs. 16 and 21, on Park Bdy. Over rolling land, thru heavy timber and scattering under-Asc. 23 ft. over NW slope.

Spur, slopes NE. Desc. 23 ft. over SE slope.

Draw, 200 lks. wide, course NE. Asc. gradual NW slope.

Spur, slopes NE. Desc. 29 ft. over NE slope.

Draw, 300 lks. wide, course N.10°W. 'Asc. '57 ft. over SW 2.50 13.50 19.00 slope to Over level bench, brs. N-S., to
Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the \(\frac{1}{4} \) sec. cor. of secs. 16 and 21, with 30.00 40.00 brass cap mkd.

Survey of Part of the Subdivision Lines

T.34 N., R.3 E., (Grand Canyon National Park Bdy.)

3 1.6 S 21

1927 from which, an aspen, 18 ins. in diam., brs. N.274°W., 20 lks. dist., mkd. 4 S16 BT a fir, 16 ins. in diam., brs. S.4°E., 28 lks. dist., mkd. $\frac{1}{2}$ S21 BT

Pesc. slight NE slope.

52.00

Enter open draw, course N.30°W. Leave open draw; asc. 146 ft. over SW slope. 57.30 62.00

Slove ahanges to South.

West edge of level divide, brs. N-S. Over top to Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 15, 16, 21 and 22, 74.00 with brass cap mkd.

> T34N R3E S16 S15 S21 S22 ·

from which. a fir, 20 ins. in diam., brs. N.33°E., 23 lks. dist., mkd. T34N R3E S15 BT an aspen, 16 ins. in diam., brs. S.50°E., 5 lks. dist., mkd. T34N R3E S22 BT an aspen, 14 ins. in diam., brs. S.40% W., 41 lks. dist., mkd. T34N R3E S21 BT an aspen, 6 ins. in dram., brs. N.51°W., 50 lks. dist., mkd. T34N R3E S16 BT

Land, rolling and level. Soil, rocky 3rd. rate.
Timber, fir, aspen, spruce and yellow pine.
Undergrowth, juniper brush.

East, on true line, bet. secs. 15 and 22, on Park Bdy. Over rolling land, thru heavy timber and scattering undergrowth.

Over level divide.
Leave divide, brs. N-S. Desc. 23 ft. over SE slope.
Draw, near head, course S. Asc. 17 ft. over SW slope.
Spur, slopes S. Desc. gradual SE slope.
Draw, 50 lks. wide, course SW. Asc. 46 ft. over gradual 14.00 23.20 28.00

32,00

W. slope to Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in the ground for the \frac{1}{4} sec. cor. of secs. 15 and 22, 40.00 with brass cap mkd.

1 S 15 S 22

1927 · from which. a fir, 14 ins. in diam., brs. N.72°E., 10 lks. dist., mkd. ½ S15 BT
a yellow pine, 26 ins. in diam., brs. S.25°W., 52 lks.
dist., mkd. ½ S22 BT

Over level bench.

Shallow draw; course SE. 62.30 Leave top; desc. 21 ft. over gradual SE slope. Draw, 200 lks. wide, course SW. Asc. 34 ft. over NW 67.00 73.60 slope to

Survey of Part of the Subdivision Lines of T.34 N., R.3 E. (Grand Canyon National Park Bdy.)

Chains 80.00 Set an iron post 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 14, 15, 22 and 23, with brass cap mkd. T34N R3E S15 S14 S22 S23 1927 from which, a balsaam, 8 ins. in diam., brs. N.63\(\frac{3}{4}\)°E., 39 lks. dist., mkd. T34N R3E S14 BT a fir, 12 ins. in diam a fir, 12 ins. in diam., brs. S.63°E., 25 lks. dist., mkd. T34N R3E S23 BT a fir, 16 ins. in diam., brs. S.83°W., 17nlks. dist., mkd. T34N R3E S22 BT a fir, 6 ins. in diam., brs. N.44°W., 42 lks. dist., mkd. T34N R3E S15 BT Land, rolling and level. Soil, rocky 3rd. rate.
Timber, fir, aspen, yellow pine and spruce.
Undergrowth, juniper brush. East, on true line, bet. secs. 14 and 23, on Park Bdy. Over rolling land, thru heavy timber and scattering undergrowth. Asc. gradual NW slope.

Over nearly level bench, brs. N-S.

Leave top; desc. gradual E. slope to

Set an iron post 3 ft. long, 1 in. in diam., 26 ins. in
the ground for the 4 sec. cor. of secs. 14 and 23,
with brass cap mkd. 15.00 39.80 40.00 1 S 14 S 23 1927 from which. an aspen, 8 ins. in diam., brs. N.834°E., 20 lks. dist., mkd. $\frac{1}{4}$ S14 BT an aspen, 6 ins. in diam., brs. S.18½°W., 33 lks. dist., mkd. $\frac{1}{4}$ S23 BT Desc. gradual E. slope.
Blazed trail, Thompson Canyon to South Canyon, brs. 40.95 NE-SW. Draw, near head, course S. Asc. slight W. slope to 41.50 44.40 Divide between South and Thompson Canyons, brs. NW-SE. Mark this point as follows:

an aspen, 8 ins. in diam., is coincident with this point, cut off this tree 4 ft. above ground and mark FOREST on NE face and PARK on SW face. Leave Park Bdy.

Leave divide, desc. 482 ft. over steep NE. slope.

Wash, 10 lks. wide, course S.70°E. 45.00 60.50 Asc. slight SW slope. Desc. 224 ft. over SE slope.

Bend in blazed trail, from NW to NE, brs. N.50 lks. dist.

Draw, course NE.Asc. 50 ft. over NW slope to

Set an iron post 3 ft. long, 2 ins. in diam., 12 ins. in
the ground for the cor. of secs. 13, 14, 23 and 24, 62.00 70.60 75.26 80.00 with brass cap mkd.

Chains

T34N R3E S14 S13 S23 S24

1927 from which, a fir, 10 ins. in diam., brs. N.6°E., 27 lks. dist., mkd. T34N R3E S13 BT a fir, 16 ins. in diam., brs. S.66°E., 20 lks. dist., mkd. T34N R3E S24 BT a fir, 12 ins. in diam., brs. S.24°W., 6 lks. dist., mkd. T34N R3E S23 BT a fir, 8 ins. in diam., brs. N.38°W., 9 lks. dist., mkd. T34N R3E S14 BT

Wand, rolling and level.
Soil, rocky 4th. rate.
Timber, fir, aspen, yellow pine and spruce.
Undergrowth, juniper brush.

The continued satisfactory adjustment of the instrument is indicated by test referred to in book "D" of this group.

To insure accuracy of measurement all lines of the foregoing notes were re-chained.

GENERAL DESCRIPTION.

Land: rolling, mountainous in character and lie on the top of Buckskin Mountain, with an elevation of between 8500 and 9000 ft. above sea level.

Soil; rocky 3rd and 4th. rate, about 2 ft. down to bedrock.

Timber; fine growth of fir, spruce, yellow pine and aspen.

Undergrowth; juniper brush and young timber.

Settlement; none.

Water; one pond of stock water near line in sec. 18.

Roads; Highway to North Rim and to Fredonia, crosses line bet. secs. 18 and 19.

Mineral; no evidence was noted.

All lands are within the Kaibab Natl. Forest to the N. and Grand Canyon National Park to the S. (as far E. as divide in secs. 14-23.

FIELD ASSISTANTS.

Benjamin J. Kinsey, U.S. Surveyor NAMES. CAPACITY. Elliott Pierson lst Chainman 2nd Chainman Bert Wells Clair Pierson Flagman

CERTIFICATE OF UNITED STATES SURVEYOR.

CERTIFICATE OF U	NITED STATES SURVEYOR.
PT Benjamin J. Kinsey	U. S. Surveyor, hereby certify upon honor that, in pursuance
	ct Cadastral Engineer, for Group 146, Arizona,
•	May , 1927, I have well, faithfully, and truly
•	
	nity with said instructions, the Manual of Surveying Instruc-
	ed all those parts or portions of
	ISION Lines of
Township 34 North, Range 3 Eas	of the Gila and Salt
River Base and Meridian, in the State of and by diagram on	of Arizona , which are represented in
he foregoing field notes as having been execute	d by me, and under my direction; and that all the corners of
aid survey have been established and perpetuat	ed in strict accordance with the Manual of Surveying Instruc-
ions, and the special written instructions of the	e District Cadastral Engineer, for Group 146, Arizona,
nd in the specific manner described in the field	d notes, and that the foregoing are the original field notes of
uch survey.	a. a
Place: Phoenix, Arizona.	Danjamus (inasy. U.S. Surveyor.
Date: April 18, 1928.	
AF	PPROVAL.
Offi	CE OF THE U.S. SUPERVISOR OF SURVEYS,
	Denver, Colo., November 8, 1929
The foregoing field notes of the survey of	
	s (Grand Canyon National Park Bdy.)
0	f
	orth, Range 3 East
	e and Meridian in the State of Arizona
executed by Benjamin J. Kinsey, U	.S.Surveyor
under his special instructions dated May 1	1,1927 for Group 146, Arizona, having been ns and explanations made, the said field notes, and the surveys
they describe, are hereby approved.	Multity Comon U.S. Tupervisor of Surveys.
- I certify that the foregoing transcript of th	ne field notes of the above described surveys in
	orrectly copied from the original notes on file in this office.
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