BOOK 3669

FIELD NOTES

OF THE SURVEY OF

•	TOWNSHIP 14 SOUTH, RANGE 6 EAST,
···	
	of the Gile and Gold Dimen Done and
O ₂	of the Gila and Salt River Base and Meridian,
In the State of	fArizona
-	
	EXECUTED BY
	William H. Thorn, U. S. Cadastral Engineer,
;	
·	
n the capacity	of U.S. Surveyor, under Special Instructions dated September 25,1919
ssued by the	United States Summeron Comment to Assess
og une	United States Surveyor General to govern surveys included in Grou
%. 100, Ari:	zona, which were approved by the Commissioner of the General Lan
)ffice, October	22, 1919, and Assignment Instructions dated December 1., 1924
	Survey commenced December 13, , 1924
	, 1924

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Book "E"
Group 100 - Arizona.

BOOK 3669

INDEX DIAGRAM.

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Lines surveyed under this group.
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Accepted surveys.
 Unsurveyed.

Areas surveyed as per accepted plats on file.

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				Indicates on o	lines lates sh	surv own	eyed by thereon	Wil: •	liam H.Thorr	ı,U.S.C.E.		
				Indicates	lines	surv	e yed un	der	this group,	dates of su	rvey	
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- Surveys hereinafter described, executed on dates shown on diagram on page 1 hereof, by W. H. Thorn, U. S. Cadastral Engineer, using Young and Son's light mountain transit No. 8592, equipped with rull vertical circle and Smith solar attachment. Unless otherwise specified all azimuth determinations are accomplished with the solar attachment.
- Examine the adjustment of the instrument and find no errors, then, to test the solar apparatus by comparing its indications resulting from observations made during a. m. and p. m. hours with a meridian established by Polaris observation, proceed as follows:
- Dec. 13, 1924. At a point 20 chs. E. of the cor. of secs. 26, 27, 34 and 35, T. 14 S., R. 6 E., G. & S. R. B. and M., Arizona, in latitude 32° 10' N., longitude 111° 43' W., at 8 h. 0 m., a. m., 1. m. t., set off 32° 10' N., on the lat arc., 23° 6½' S., on the declare., determine a meridian with the solar and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs. N.
- At app. noon, with the lat. arc unchanged observe the sun on the meridian, obtaining a reading of 23° 9' S. on the decl. arc, which agrees with the computed declination of the sun.
- At same station, at 2 h. 3 m., p. m., l. m. t., observe Polaris at eastern elongation, making four observations, two each with the telescope in airect and reversed positions, and mark the mean point in the line thus determined, on a wooden peg driven firmly in the ground 5 chs. N.
- Azimuth of Polaris at eastern elongation = 1° 17' 35".
- At 2 h. 15 m., p. m., l. m. t., lay off the azimuth of Polaris 1° 17½ to the west and the meridian thus determined coincides with that determined with the solar observation.
- At 4 h.00 m., p. m., l. m. t., with the lat arc unchanged, set off 23° 8' S., on the decl. arc, and determine a meridian with the solar which agrees with the meridian determined by Polaris observation. As all of the solar observations made during the usual hours of solar work come within l' in arc, of the true meridian conclude that the adjustment of the instrument is satisfactory.
- Unless otherwise specified all measurements are made with a Lufkin steel tape 5 chs. in length, compared with a Lufkin standard steel tape and found correct. The measurements are made on the slope, vertical angles determined with clinometer, and the slope measurements properly reduced to true horizontal distances.

Survey of Part of the Subdivision Lines of Township 14 South, Range 6 East.

Chains The following notes describe the survey of the subdivision lines of secs. 33, 34, 35 and 36, T. 14 S., R. 6 E., which includes all of the land in said township situated outside the Papago Indian Reservation. The remainder of the subdivision lines are unsurveyed. ! boundary of said reservation is identical with the south mile of the 4th meridional, sec. line and with the east 4 miles of the first latitudinal sec. line.

From the cor. of secs. 1, 2, 35 and 36 on the S. bdy. of the township, described in Book. "C" of this group.

N. 0° 1' W., on a true line, bet. secs. 35 and 36.

Over level land, thru scattering timber and undergrowth.

22.30 Wash, 20 lks. wide, course NW.
26.90 Wash, 50 lks. wide, course West.
38.10 Wash, 20 lks. wide, course West.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ½ sec. cor. of secs. 35 and 36, with brass cap marked

\$ 35 | \$ 36 1924

From which

Mesquite, 6 ins. in diam., brs. S. 71° E., 139 lks.
dist., marked \$\frac{1}{4}\$ \$\frac{3}{6}\$ B T.

Mesquite, 5 ins. in diam., brs. N. 41° W., 76 lks.
dist., marked \$\frac{1}{4}\$ \$\frac{3}{6}\$ B T.

Continue over level land, thru scattering timber and

undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, with brass cap marked

> T 14 S R 6 E S 26 | S 25 S 35 | S 36 1924

From wnich

Mesquite, 5 ins. in diam., brs. N. 67° E., 88 lks. dist., marked T 14 S R 6 E S 25 B T. Mesquite, 6 ins. in diam., brs. S. 304° E., 157 lks.

dist., marked T 14 S R 6 E S 36 B T.

Mesquite, 4 ins. in diam., brs. S. 5 W., 40 lks.

dist., marked T 14 S R 6 E S 35 B T.

Mesquite, 5 ins. in diam., brs. N. 16 W., 53 lks. dist., marked T 14 S R 6 E S 26 B T.

Land; level.

Soil; sandy and gravelly, 2nd rate. Timber; mesquite and palo verde. Undergrowth; greasewood and catclaw.

East, on a random line, bet. secs. 25 and 36.

40.00 Set temp. 4 sec. cor.

80.00 Intersect the cor. of secs. 25 and 36 on the E. bdy. of the T., described in Book "F" of this group

Thence West, on a true line, bet. secs. 25 and 36.

Over level land, thru scattering timber and undergrowth.

2.70 Drain, course N.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. of secs. 25 and 36, with brass cap marked

Survey of part of the Subdivision Lines of Township 14 South, Range 6 East

Chains \$ 36 t ~ From which Mesquite, 4 ins. in diam., brs. S. 36° W., 268 lks.
dist., marked \$\frac{1}{4}\$ \$ 36 B T.

Mesquite, 4 ins. in diam., brs. N. 35° W., 55 lks.
dist., marked \$\frac{1}{4}\$ \$ 25 B T.

Continue over level land, thru scattering timber and undergrowth. 61.60 Wash, 20 Iks. wide, course N. 80.00 The cor. of secs. 25, 26, 35 and 36. Land; level. Soil; sandy and gravelly, 2nd rate. Timber; palo verde and mesquite. Undergrowth; greasewood and catclaw. From the cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the township, described in Book "C" of this group N. 0° 1' W., on a true line, bet. secs. 34 and 35. Over nearly level land, thru scattering timber and undergrowth. 23.60 Road, brs. NW. and SE.
32.20 Wash, 50 lks. wide, course E.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor. of secs. 34 and 35, with brass cap marked \$ 34 | \$ 35 1924 From which Ironwood, 6 ins. in diam., brs. N. 142° E., 18 1ks. dist., marked \$35 B T.

Ironwood, 6 ins. in diam., brs. N. 672° W., 59 1ks. dist., marked \$34 B T. Continue over nearly level land, thru scattering timber and undergrowth. 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35, with brass cap marked T 14 S R 6 E 6 S 27 | S 26 S 34 S 35 1924 From which Mesquite, 5 ins. in diam., brs. N. 46° E., 237 lks. dist., marked T 14 S R 6 E S 26 B T.

Mesquite, 4 ins. in diam., brs. S. 402° E., 134 lks. dist., marked T 14 S R 6 E S 35 B T. Ironwood, 5 ins. in diam., brs. S. 432 W., 103 lks. dist., marked T 14 S R 6 E S 34 B T.

Mesquite, 5 ins. in diam., brs. N. 22 W., 139 1ks.
dist., marked T 14 S R 6 E S 27 B T. Land; nearly level. Soil; sandy and rocky, 2nd rate. Timber; palo verde and mesquite and ironwood. Undergrowth; greasewood and catclaw.

Survey of part of the Subdivision Lines of Township 14 South, Range 6 East. Chains S. 89° 56' E., on a random line, bet. secs. 26 and 35, toward flag on objective sec. cor. which is visible on such bearing.

40.00 Set temp. \(\frac{1}{4}\) sec. cor.

80.18 Intersect the cor. of secs. 25, 26, 35 and 36. Thence
N. 89° 56' W., on a true line, bet. secs. 26 and 35.
Over level land, thru scattering timber and undergrowth. Wash, 50 lks. wide, course N.

Center of wash, 330 lks. wide, course N.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \$\frac{1}{2}\$ sec. cor. of secs. 26 and 35, with brass cap marked \$ 26 \$ 35. 1924 From which Mesquite, 4 ins. in diam., brs. N. 34½° W., 86 lks. dist., marked ½ \$ 26 B T.

Mesquite, 5 ins. in diam., brs. S. 84° W., 99 lks. dist., marked ¼ \$ 35 B T. 51.08 Wash, 40 lks. wide, course N. 73.38 Wash, 20 lks. wide, course NE. 80.18 The cor. of secs. 26, 27, 34 and 35. Land; level. Soil; sandy and gravelly, 2nd rate. Timber; palo verde and mesquite.
Undergrowth; greasewood and catclaw brush. From the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Township, described in Book "C" of this group, N. 0° 2' W., on a true line, bet. secs. 33 and 34. Over level land, thru scattering timber and dense undergrowth. 15.80 Wash, 30 lks. wide, course N. 70° E.

32.10 Wash, 10 lks. wide, course N. 70° E.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for ½ sec. cor. of secs. 33 and 34, with brass cap marked

\$ 33 | \$ 34 1924

From which Ironwood, 5 ins. in diam., brs. S. 65\(\frac{2}{4}\) E., 124 lks.
dist., marked \(\frac{1}{4}\) S 34 B T.

Mesquite, 8 ins. in diam., brs. S. 7° W., 78 lks.
dist., marked \(\frac{1}{4}\) S 33 B T.

Continue over level land, thru scattering timber and

dense undergrowth.
51.70 Wash, 30 lks. wide, course NE.

80.00 Set an iron post, 3.ft. long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 27, 28, 33 and 34, with brass cap marked

From Which Mesquite, 6 ins. in diam., brs. N. 60° E., 123 lks. dist., marked T 14 S R 6 E S 27 B T.

Survey of part of the Subdivision Lines of Township 14 South, Range 6 East.

Mesquite, 6 ins. in diam., brs. S. 72° E., 80 lks. dist., marked T 14 S R 6 E S 34 B T. Mesquite, 6 ins. in diam., brs. S. 342° W., 109 lks. Chains dist., marked T 14 S R 6 E S 33 B T. Mesquite, 6 ins. in diam., brs. N. 462 W., 76 lks. dist., marked T 14 S R 6 E S 28 B.T. Land; level. Soil; sandy and gravelly, 2nd rate. Timber; ironwood, palo verde and mesquite. Undergrowth; greasewood, catclaw and cactus. East, on a random line, bet. secs. 27 and 54. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.88 Fall 6 lks. N. of cor. of secs. 26, 27, 34 and 35. Thence N. 89° 57' W., on a true line, bet. secs. 27 and 34. Over level land, thru scattering timber and dense undergrowth. 5.08 Wash, 50 lks. wide, course N.
12.18 Wash, 30 lks. wide, course N.
34.38 Wash, 10 lks. wide, course N. 10° E.
39.94 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor. of secs. 27 and 34, with brass cap marked From which Palo verde, 6 ins. in diam., brs. N. 18° E., 114 lks. dist., marked 4 S 27 B T. Mesquite, 4 ins. in diam., brs. S. 25° E., 29 lks. dist., marked \$ \$ 34 B T.

Continue over level land, thru scattering timber and dense undergrowth. 50.08 Road, brs. NW. and SE. 68.88 Wash, 50 lks. wide, course N. 71.78 Wash, 30 lks. wide, course N. 79.88 The cor. of secs. 27, 28, 33 and 34. Land; level. Soil; 2nd rate. Timber; ironwood, palo verde and mesquite. Undergrowth; greasewood and catclaw. From cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the township, described in Book "C" of this group, N. 0° 2' W., on a true line, bet. secs. 32 and 33.

Over gently rolling land, thru scattering timber and dense undergrowth.

2.40 Wash, 20 lks. wide, course E.

28.50 Wash, 20 lks. wide, course. NE.

37.90 From this point, fence cor. bears East 250 lks. dist.,

from which wire fence extends NE. and S.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for 4 sec. cor. of secs. 32 and 33, with brass cap marked

\$ 32 | \$ 33 1924

Survey of part of the Subdivision Lines of Township 14 South, Range 6 East.

Chains From which Palo verde, 4 ins. in diam., brs. N. 63° E., 11 lks. dist., marked 4 \$ 33 B T.

Ironwood, 5 ins. in diam., brs. S. 104° W., 82 lks. dist., marked 4 \$ 32 B T. Continue over gently rolling land, thru scattering timber and dense undergrowth. Wash, 20 lks. wide, course N. 5° E. Same wash, course N. 5° W. 64.40 72.00 80.00 Set am iron post, 3 ft: long, 2 ins. in diam., 24 ins. in the ground for cor. of secs. 28, 29, 32 and 33, with brass cap marked T 14 S R 6 E S 29 | S 28 S 32 S 33 1924 From which Mesquite, 5 ins. in diam., prs. N. 662° E., 47 lks. dist., marked T 14 S R 6 E S 28 B T. Mesquite, 5 ins. in diam., brs. S. Oz E., 159 lks.
dist., marked T 14 S R 6 E S 33 B T.

No other bearing trees available. Raise a mound of stone 3 ft. base, 2 ft. high W. of cor. Land; gently rolling. Soil; sandy and gravelly, 2nd rate. Timber; ironwood, palo verde and mesquite. Undergrowth; greasewood, catclaw and cactus. East, on a random line bet. secs. 28 and 33.
40.00 Set temp. 4 sec. cor.
80.00 Intersect cor. of secs. 27, 28, 33 and 34. Thence West, on a true line, bet. secs. 28 and 33. Over gently rolling land, thru scattering timber and dense undergrowth.

17.00 Wash, 50 lks. wide, course N.

19.20 Wire fence, four-wire, brs. NE. and SW. 30.00 Wash, 30 lks. wide, course N.
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for \(\frac{1}{2} \) sec. cor. of secs. 28 and 33, with brass cap marked **S** 33 1924 From which Mesquite, 4 ins. in diam., brs. N. 402° E., 35 lks.
dist., marked 4 S 28 B T.
Mesquite, 5 ins. in diam., brs. S. 81° E., 119 lks.
dist., marked 5 S 33 B T.
Continue over gently rolling land, thru scattering timber and dense undergrowth. 46.20 Wash, 20 lks. wide, course N. 62.00 Wash, 20 lks. wide, course N. The cor. of secs. 28, 29, 32 and 33. 80.00 Lana; gently rolling. Soil; sandy and gravelly, 2nd rate. Timber; ironwood, palo verde and mesquite. Undergrowth; greasewood, catclaw and cactus.

Note: The continued satisfactory adjustment of the solar apparatus of the instrument used in the execution of the surveys described in the foregoing notes is indicated from field tests described in Book "F" of this group.

Boundaries of that part of T. 14 S., R. 6 E., situated outside the Papago Indian Reservation. Latitudes, departures and closing errors.

Line des	ignated	True course	Dist-	Latit	udes	Departures		
·	_ 0		ance	N•	s.	E•	₩•	
South Bo	undary	West	320.00				320.00	
S ubdivis Bounda		N. 0° 2'W. East S.89° 57'E. S.89° 56'E. East	80.00 80.00 79.88 80.18 80.00	80.00	•07	80.00 79.88 80.18 80.00	•05	
East Bou	n dary	South	80.00	, र	80.00			
Converge	ncy					•05		
	Totals		, 3	80.00	80.16	320.11	320.08	
	*		3 - *	1	80.00	320.05	-	
	Error in	latitude	ć L :		0.16	÷ .		
	Error in	departure	0	-		0.06		

GENERAL DESCRIPTION.

Sections 33, 34, 35 and 36, of T. 14 S., R. 6 E., are level and gently rolling. Soil sandy and gravelly loam, 2nd rate. Timber, scattering mesquite, palo verde and ironwood. Undergrowth, greasewood, catclaw and cactus. No grass at this time, but during rainy seasons a fair growth appears and furnishes temporary grazing. There are no settlers and the only improvement is a wire fence extending N. and NE. thru sec. 33. There is no permanent water and no indication of valuable mineral deposits. A road passes NW. and SE. thru secs. 34 and 35.

4--680

FIELD ASSISTANTS.

William H. Thorn, U.S.	
NAMES.	CAPACITY.
Frank T.Burgess,	lst chainman,
Albert L.Bailey,	2nd chainman,
Homer Pepper,	moundman,
George M. Tucker,	flagman,
James S.Hayward,	axman.
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CERTIFICATE OF UNITED STATES CADASTRAL.. <u>ENGINEER.</u>

I, William H. Thorn, U.S. Cadastral Engineer, ve. or, hereby certify upon honor that, in pursuance
of special instructions received from the U.S. Surveyor General, for Group No. 100, Arizona,
bearing date of the25th day of _September,, 1919 , I have well, faithfully, and truly
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instruc-
tions, and the laws of the United States, surveyed all those parts or portions of _the
Subdivision lines of
TOWNSHIP 14 SOUTH BANGE 6 EAST.
of the Gila and Salt River
Base and Meridian, in the State of, which are represented in and by diagram on page 1 hereof the foregoing field notes as having been executed by me, and under my direction; and that all the corners of
said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instruc-
tions, and the special written instructions of the U.S. Surveyor General forGroup No.100_Arizona,
and in the specific manner described in the field notes, and that the foregoing are the original field notes of
Place Thereix Ans Date: Oct 16 1925 U. S. Cadastral Engineer.
APPROVAL.
Office of united states supervisor of surveys.
Denver, Celorade, November 25, 1925
The foregoing field notes of the survey of part of the
Subdivision lines ofn
TOWNSHIP 14 SOUTH. RANGE 6 EAST.
of the Gila and Salt River Base and Meridian, in the State of Arizona,
executed by William H. Thorn, U. S. Cadastral Engineer.
under his special instructions dated September 25th, 1919, for Group 100, Arizonto, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys
they describe, are hereby approved.
S. Supervisor of Surveys.
I certify that the foregoing transcript of the field notes of the above described surveys in