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Book 1-679 "N"

BOOK 3678

FIELD NOTES

OF THE SURVEY OF

Part of Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 6 EAST,

Of the Gila and Salt River Base and *Meridian,*

In the State of Arizona.

EXECUTED BY

Charles E. Hunter,

U. S. Transitman,

In the capacity of U. S. Surveyor, *under Special Instructions dated* September 25 *1919, issued by the United States Surveyor General to govern surveys included in Group No.* 100, Arizona, *which were approved by the Commissioner of the General Land Office,* October 22, *1919, and Assignment Instructions dated* December 1, *1924.*

Survey commenced February 23, *1925.*

Survey completed February 23, *1925.*

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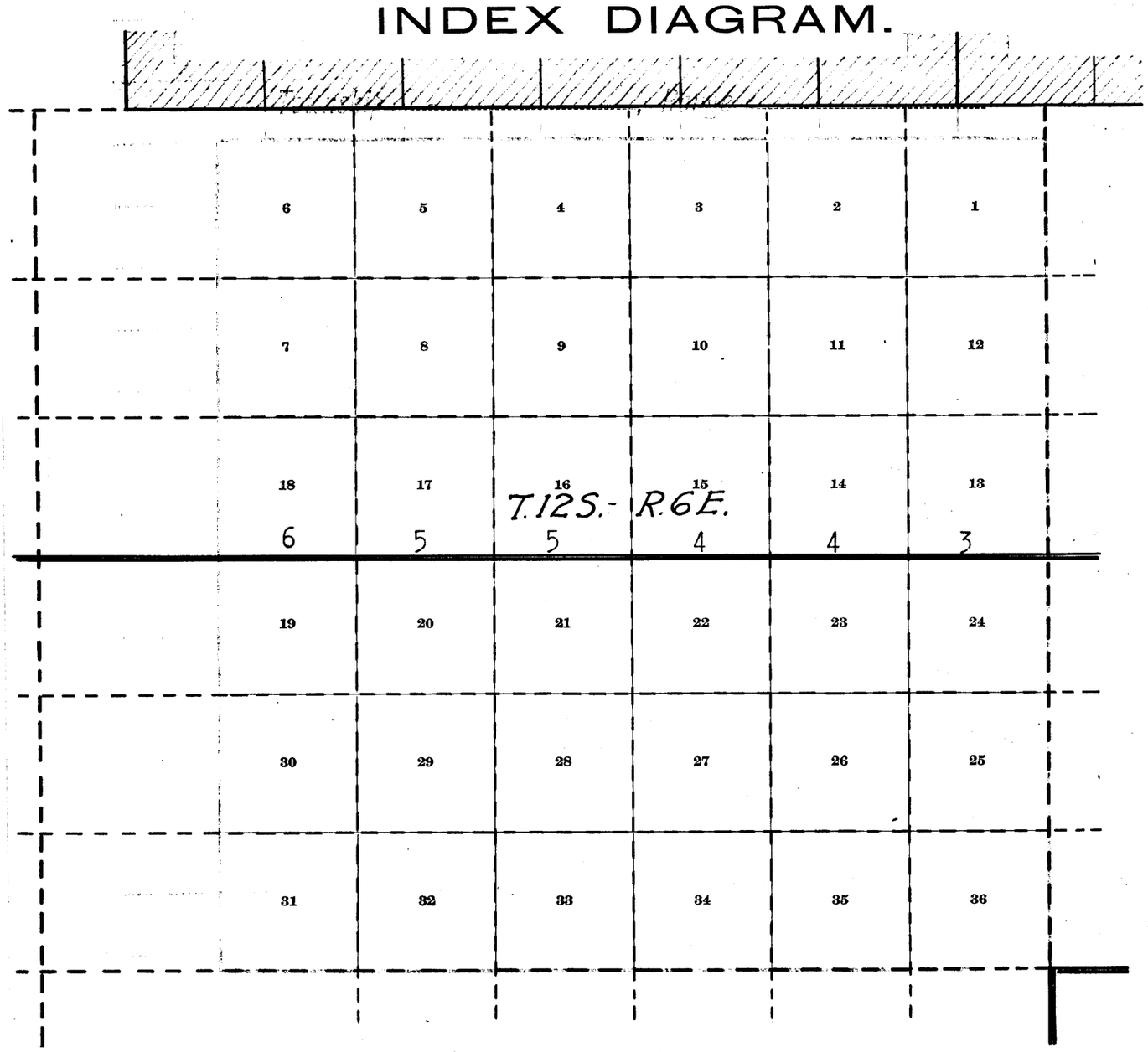
INDEX DIAGRAM.



Lines surveyed under this group.

Accepted surveys.

Unsurveyed.

Areas surveyed as per accepted plats on file.

Book "N"

Group 100 - - Arizona.

Township 12 South, Range 6 East.

DATE DIAGRAM.

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

——— Indicates lines surveyed by Charles E.Hunter, U.S.T., on dates shown thereon.

Surveys hereinafter described, executed by Charles E.Hunter, U.S.Transitman, on dates shown on diagram on page 1 hereof, using Buff and Buff Transit No.10125. This instrument is equipped with full vertical circle, and Smith's solar attachment. Unless otherwise specified, all azimuth determinations are accomplished with the solar attachment.

Feb.21,1925: Examine the adjustment of the instrument, and correct all errors; then, to test the solar apparatus by comparing its indications from observations made during a.m. and p.m.hours with a meridian established by Polaris observation, proceed as follows:

At camp, near center of sec.34, T.11 S., R.4 E.(unsurveyed) Gila and Salt River Base and Meridian, Arizona, in lat. 32°25½'N., and long.111°56¼'W., at 9h.25.0m.p.m., l.m.t. observe Polaris at western elongation, making four observations, two each with the telescope in direct and reversed positions, and mark the mean point in the line thus determined, on a peg driven firmly in the ground, 5 chs.N.

Azimuth of Polaris at western elongation = 1°17'47".

Feb.22, 1925: At 7h.30m.a.m., l.m.t., lay off the azimuth of Polaris, 1°18' to the E., and mark the meridian thus determined by a tack in a peg driven firmly in the ground, 5 chs.N.

At 8h.0m.a.m., l.m.t., set off 32°25½'N. on the lat.arc; 10° 12'S. on the decl.arc, and determine a meridian with the solar, which agrees with the true meridian.

At app.noon, with the lat.arc unchanged, observe the sun on the meridian; the resulting reading of the decl.arc is 10°9'S., which agrees with the computed decl. of the sun.

At 4h.00m.p.m., l.m.t., with the lat.arc unchanged, set off 10°5'S. on the decl.arc, and determine a meridian with t the solar, which agrees with the true meridian.

As all of the solar observations during the usual hours of solar work come within 1' of the true meridian, conclude that the adjustment of the instrument is satisfactory.

Unless otherwise specified, all measurements are made with Lufkin steel tape, 5 chs. in length, compared with a Chesterman standard steel tape, and found correct. All measurements are made on the slope, the vertical angles determined with clinometer, and the slope measurements properly reduced to the horizontal equivalent for entry in the field notes.

Chains.

The following notes describe the survey of the Third latitudinal sec.line, thru.T.12 S., R.6 E., G.and S.R.B. and M., Arizona, which line forms a part of the boundary of the Papago Indian Reservation, the land on the S. thereof being within said Reservation.

From cor.of secs. 13,18,19 and 24, established in a position theoretically on the unsurveyed range line, bet. Rs.5 and 6 E., as described in Book "M,"
West,on a random line, setting temp.¼ sec. and sec.cors. alternately at intervals of 40.00 chs.; and at
585.42 (A point theoretically N.from std.cor.of Ts.15 S.,Rs.5 and 6 E.,on 3rd.Std. Par.S,) Set temp.cor.of secs.13, 18,19 and 24, Ts.12 S.,Rs.5 and 6 E.
Continue line and measurement,thru.middle of T.12 S.,R.5 E., setting temporary.¼ sec. and sec.cors.alternately at intervals of 40.00 chs.; and at
1063.16 Fall 27 lks.N,of the cor.of secs.13,18,19 and 24,Ts.12 S., Rs.4 and 5 E.,on the First Guide Meridian East.
The true bearing of the third latitudinal sec.line, thru. Ts.12 S., Rs.5 and 6 E. is therefore S.89°59'W.
The theoretical length of the line being 1063.81 chs.,and the actual length 1063.16 chs., the difference of 65 lks, is divided between Rs.5 and 6 E. in proportion to the widths thereof. The true length of line thru. R.5 E. is therefore 478.07 chs.,and of line thru.R.6 E. is 585.09 chs.

Return to the cor. of secs.13,18,19 and 24,Ts.12 S.,Rs.6 and 7 E., described in Book "M" of this group.
Thence,
S.89°59'W., on a true line, bet. secs.13 and 24,
Over nearly level land, thru. scattering timber and undergrowth.
18.50 Wash,10 lks.wide, course SW.
21.30 Road, brs.N.and S.
40.00 Set an iron post, 3 ft.long, 1 in.in diam.,26 ins.in the ground for ¼ sec.cor., with brass cap, marked

¼ S 13
S 24
1925

from which,
A mesquite,4 ins.in diam.,brs.S.64°W.,229 lks.dist., marked ¼ S 24 BT.
A mesquite,6 ins.in diam.,brs.N.23°W.,138 lks.dist., marked ¼ S 13 BT.
Continue over nearly level land, thru. scattering timber and undergrowth.
80.00 Set an iron post, 3 ft.long, 2 ins.in diam.,22 ins.in the ground to bed rock,supported in a mound of stone, for cor.of secs.13,14,23 and 24, with brass cap, marked

T12S | R6 E
S14 | S13
S23 | S24
1925

from which,
A mesquite,6 ins.in diam.,brs.N.15°E.,159 lks.dist., marked T12S R6E S13 BT.
A mesquite,5 ins,in diam.,brs.S.20°E.,236 lks.dist., marked T12S R6E S24 BT.
A mesquite,5 ins.in diam., brs.S.18¾°W.,90 lks.dist., marked T12S R6E S23 BT.
A mesquite,4 ins. in diam.,brs.N.61°W.,157 lks.dist., marked T12S R6E S14 BT.

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4 Survey of part of Subdivision lines of T. 12 S., R. 6 E.

Chains.

Land, nearly level.
Soil, sandy loam, and gravelly, 2nd rate.
Timber, palo verde and ironwood.
Undergrowth, greasewood.

S.89°59'W., on a true line, bet. secs. 14 and 23.
Over nearly level land, thru. scattering timber and undergrowth.

38.40 Wash, 10 lks. wide, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for ¼ sec. cor., with brass cap, marked

¼ S 14
S 23
1925

No bearing trees available.
Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft. dist.
Continue over nearly level land, thru. scattering timber and undergrowth.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 22 ins. in the ground for cor. of secs. 14, 15, 22 and 23, with brass cap, marked

T12S	R6 E
S15	S14
S22	S23

1925

No bearing trees available. Dig pits, 18x18x12 ins., one each NE., SE., SW. and NW. of post, 3 ft. dist.
Land, nearly level.
Soil, adobe, 2nd rate.
Timber, mesquite.
Undergrowth, greasewood and catclaw.

S.89°59'W., on a true line, bet. secs. 15 and 22.
Over nearly level land, thru. scattering timber and undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in. the ground for ¼ sec. cor., with brass cap, marked

¼ S 15
S 22
1925

No bearing trees available. Dig pits, 18x18x12 ins., one each E. and W. of post, 3 ft. dist.
Continue over nearly level land, thru. scattering timber and undergrowth.

64.60 Wash, 10 lks. wide, course NW.

79.80 Wash, 15 lks. wide, course NW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins. in the ground, with a stone marked with a cross (x) deposited at base of post, for cor. of secs. 15, 16, 21 and 22, with brass cap, marked

T12S	R6 E
S16	S15
S21	S22

1925

from which,
A mesquite, 4 ins. in diam., brs. S.14½°W., 254 lks. dist., marked T12S R6E S21 BT.
A mesquite, 4 ins. in diam., brs. N.32½°W., 154 lks. dist., marked T12S R6E S16 BT.

Chains.

No other bearing trees available. Dig pits 18x18x12 ins., one each NE., SE., SW. and NW. of post, 3 ft. dist.
Land, nearly level.
Soil, adobe, 2nd rate.
Timber, mesquite.
Undergrowth, greasewood and catclaw.

S.89° 59'W., on a true line, bet. secs.16 and 21.
Over level land, thru. scattering timber and undergrowth.
.70 Wash,15 lks.wide, course NW.
39.20 Wash, 15 lks.wide, course North.
40.00 Set an iron post, 3 ft.long, 1 in. in diam.,26 ins. in the ground, for ¼ sec.cor., with brass cap, marked

¼ S 16
S 21
1925

No bearing trees available. Dig pits, 18x18x12ins.,one each E.and W. of post, 3 ft. dist.
Continue over level land, thru. scattering timber and undergrowth.
80.00 Set an iron post, 3 ft.long, 2 ins.in diam.,26 ins. in the ground for cor.of secs. 16,17,20 and 21, with brass cap, marked

T12S | R6 E
S17 | S16
S20 | S21
1925

Dig pits, 18x18x12 ins., one each NE.,SE.,SW. and NW. of post, 3 ft. dist.
Land, level.
Soil,adobe, 2nd rate.
Timber, mesquite.
Undergrowth, greasewood and catclaw.

S.89°59'W., on a true line, bet. secs.17 and 20.
Over level land, thru.scattering timber and undergrowth.
16.60 Wash, 10 lks.wide, course NW.
18.50 Wash,10 lks.wide, course NW.
24.60 Wash,20 lks.wide, course NW.
31.20 Wash,10 lks.wide, course North.
40.00 Set an iron post, 3 ft.long, 1 in.in diam.,26 ins.in the ground for ¼ sec.cor., with brass cap, marked

¼ S 17
S 20
1925

No bearing trees available.
Dig pits, 18x18x12 ins., one each E.and W.of post, 3 ft. dist.
Continue over level land, thru. scattering timber and undergrowth.
80.00 Set an iron post, 3 ft.long, 2 ins.in diam.,26 ins.in the ground for cor.of secs.17,18,19 and 20, with brass cap, marked

T12S | R6E
S18 | S17
S19 | S20
1925

No bearing trees available.

6 Survey of part of Subdivision lines of T.12 S., R. 6 E.

Chains.	
	Dig pits,18x18x12 ins., one each NE., SE., SW. and NW.of post, 3 ft. dist.
	Land,level.
	Soil,adobe, 2nd rate.
	Timber, mesquite.
	Undergrowth, greasewood and catclaw.

	S.89°59'W.,on a true line, bet.secs.18 and 19.
	Over level land, through scattering timber and undergrowth.
40.00	Set an iron post, 3 ft.long, 1 in.in diam.,26 ins.in the ground, for ¼ sec.cor., with brass cap, marked ¼ S 18 S 19 1925
	No bearing trees available. Dig pits 18x18x12 ins.,one each E. and W. of post, 3 ft. dist.
	Continue over level land, thru. scattering timber and undergrowth.
96.00	Road, brs.N.and S.
97.60	Wash, 10 lks.wide, course NE.
120.00	Raise a mound of stone, 3 ft.base, 2 ft.high on line at this point.
131.45	Wash,10 lks.wide, course NE.
143.40	Wash,10 lks.wide, course NE.
155.80	Wash,10 lks.wide, course NE.
185.09	(Theoretical intersection with range line, bet.secs.5 and 6 E.) Set an iron post, 3 ft. long, 2 ins. in diam., 26 ins.in the ground, for cor.of secs.13,18,19, and 24, with brass cap, marked T12S R5E | R6E S13 | S18 S24 | S19 1925
	from which, An ironwood, 12 ins. in diam.,brs.N.42½°E., 391 lks.dist., marked T12S R6E S18 BT. A palo verde, 10 ins.in diam., brs.S.72°E., 304 lks.dist., marked T12S R6E S19 BT. A mesquite,4 ins. in diam.,brs.S.24°W., 155 lks.dist., marked T12S R5E S24 BT. A palo verde, 7 ins. in diam.,brs.N.50°W., 351 lks.dist., marked T12S R5E S13 BT.
	Land,level.
	Soil, adobe and sandy, 2nd rate.
	Timber, mesquite, palo verde and ironwood.
	Undergrowth, greasewood and catclaw.

	The continued satisfactory adjustment of the solar apparatus of the instrument used in the execution of the survey described in the foregoing notes is indicated from the final field test of the instrument described in Book "O" of this group.

GENERAL DESCRIPTION.

There are no areas surveyed in Township 12 South, Range 6 East.
The third latitudinal section line, thru. middle of the township surveyed as described in the foregoing notes, and the north boundary of the township surveyed in 1916 by W.H.Thorn, U.S.S. are the only surveyed lines of the township.
The surface of the entire township is level or nearly level, sloping slightly to the north.
The soil is sandy and adobe, 1st and 2nd rate.
There is a scattering growth of timber over the entire township, consisting of mesquite, palo verde and ironwood.
A scattering undergrowth of greasewood, catclaw and scrub mesquite is prevalent in all parts.
A periodical growth of grass in rainy seasons only, furnishes fair grazing at such times.
There are no springs or watercourses carrying a permanent flow of water.
There are no settlers or improvements, and no indications of valuable mineral deposits.
A road brs. N. and S., thru. the eastern part, and another road with same bearing traverses the western part of the township. Neither of these roads are main travelled roads.
The entire south half of this township is within the Papago Indian Reservation, the section line surveyed as described in the foregoing notes forming a part of the boundary of said Reservation.

BOOK 3678

Book "N"
Group 100 - Arizona.
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FIELD ASSISTANTS.
to
Charles E. Hunter, U.S.Transitman.

NAMES.	CAPACITY.
Leroy R.Hansen,	1st chainman,
Charles F. Elerick,	2nd chainman,
Charles Knight,	cornerman,
Oswald E.Recroft,	flagman,
Gordon F.Jackson,	axman.

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CERTIFICATE OF UNITED STATES TRANSITMAN.

10

I, Charles E. Hunter, U. S. Transitman, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General, for Group 100, Arizona, bearing date of the 25th day of September, 19 19, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 6 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which are represented in 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 Instructions, and the special written instructions of the U. S. Surveyor General, for Group 100, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

and by diagram on page 1 hereof

Place: Phoenix, Arizona

Date: October 28, 1925.

Charles E Hunter
U. S. Transitman.

APPROVAL.

OFFICE OF UNITED STATES SUPERVISOR OF SURVEYS,

Denver, Colorado, November 25, 1925.

The foregoing field notes of the survey of part of the Subdivision lines of

TOWNSHIP 12 SOUTH, RANGE 6 EAST,

of the Gila and Salt River Base and Meridian, in the State of Arizona,

executed by Charles E. Hunter, U. S. Transitman,

under his special instructions dated September 25, 1919, for Group 100, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frank T. Johnson
United States Supervisor of Surveys.

~~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.~~

~~U. S. Surveyor General.~~

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