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Book "O."
4-679

BOOK 3186

1

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

and

MEANDERS OF THE LEFT BANK OF THE COLORADO RIVER, WITHIN
THAT PORTION OF FRACL. TOWNSHIP 4 NORTH, RANGE 22 WEST.

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

Which is OUTSIDE the Boundary of the
COLORADO RIVER INDIAN RESERVATION

EXECUTED BY

William B. Kimmel,

In the capacity of U. S. Surveyor, under instructions dated February 5, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 47, which were approved by the Commissioner of the General Land
Office, February 23, 1915.

Survey commenced June 6, 1916.

Survey completed Jan. 31, 1917.
Instructions dated Feb. 27, 1915 & Dec. 9, 1915.

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SEE SPECIAL INDEX DIAGRAM.

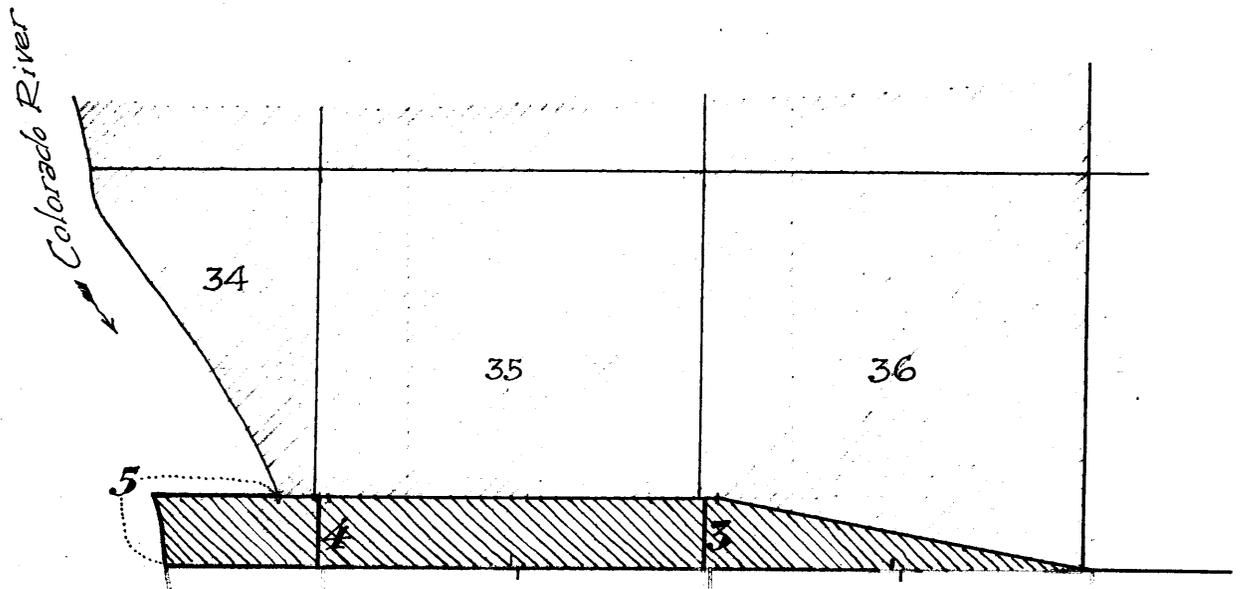
INDEX DIAGRAM.

Township 4 North, Range 22 West.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
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FRAC'l TOWNSHIP 4 NORTH - RANGE 22 WEST
= INDEX - DIAGRAM =

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————— Surveyed under this group. Notes in this book.

————— Surveyed under this group. Notes in book "N".

————— Accepted surveys.

 Area of Frac'l T.4N.:R.22W. within Colorado River Indian Res.

 Area of Frac'l T.4N.:R.22W. outside Colorado River Indian Res.

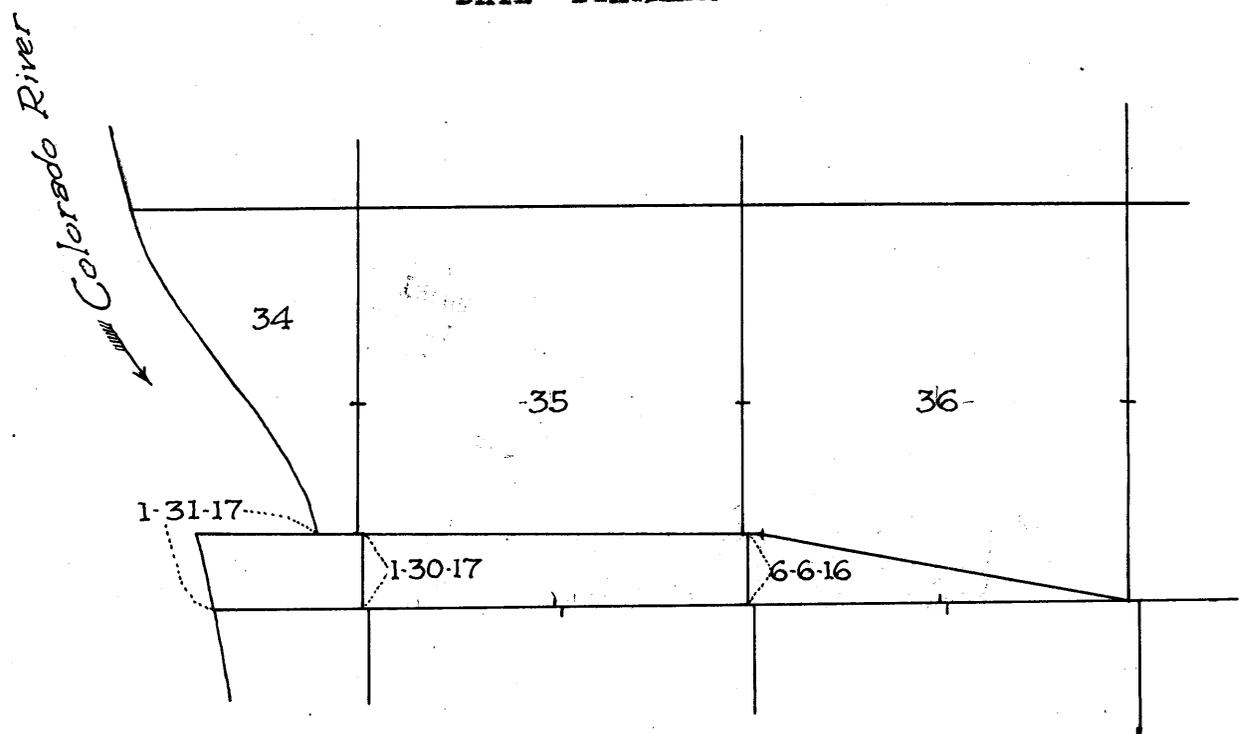
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Book "0"

Group 47 - - - Arizona.

Tract. Township 4 North, Range 22 West.

DATE DIAGRAM.



Surveys executed on dates on above diagram, by William B. Kimmel, U.S. Surveyor.

Chains.

Surveys hereinafter described were executed by William B. Kimmel, U.S. Surveyor, on dates shown on diagram on page 2 of this book, using a Young and Son's light mountain transit No. 8523, with solar attachment, described in Book "A."

Jan. 24, 1917, at a point near camp, at the west end of the ferry on the California side of the Colorado river, opposite the subdivisional line, bet. fracl. secs. 2 and 11, fracl. T. 3 N., R. 22 W., G. and S. R. B. and M., Arizona, latitude 33° 37' N.; longitude, 114° 31' 20" W., I examine the adjustments of the transit, and correct the level and collimation errors. Then, to test the solar attachment by comparing its indications resulting from solar observations made during a.m. and p.m. hours, on a meridian established by observation on Polaris, I proceed as follows:

At 6h. 56m., p.m. l.m.t., I make an hour angle observation on Polaris in accordance with instructions in the Manual of Surveying. Time of observation, 6h. 56m. p.m., l.m.t., time of upper culmination, 5h. 15m. p.m., l.m.t., hour angle, 1h. 41m., to the west, from which the azimuth of Polaris is found to be 0° 35' to the east.

Jan. 25, 1917, I lay off the azimuth of Polaris, for the given hour angle, 0° 35' to the east, and mark the meridian thus determined by a peg driven firmly in the ground, 5 chs. to the N. of my station.

At 8h. a.m., l.m.t., I set off 33° 37' N. on the lat. arc; 18° 57' S. on the decl. arc; and determine a meridian with the solar. The meridian thus determined falls within 1' in azimuth of the meridian established by observations on Polaris.

At 4h. p.m., l.m.t., I set off 33° 37' N. on the lat. arc; 18° 52' S. on the decl. arc, and determine a meridian with the solar. The meridian thus determined falls within 1' in azimuth of the meridian established by observations on Polaris. I therefore conclude that the adjustments of the transit and solar attachment are satisfactory.

The magnetic declination at this point is 14° 25' E.

From the true point for cor. of secs. 35 and 36 on S. bdy. of Tp., witnessed as described in Book "N,"

N. 0° 1' W., bet. secs. 35 and 36. Over level land, in bed of wash, through scattering timber and undergrowth.

- .25 Cut bank, 5 ft. high, brs. NW. and SE. Leave wash.
- .35 The witness cor. to cor. of secs. 35 and 36, described in Book "N."
- .50 Wire fence brs. NE. and SW.
- 7.30 Enter Arroyo La Paz, 5 ft. deep, course W. Thence through dense timber and undergrowth, in the bed of the arroyo.
- 13.73 Intersect S. bdy. of Colorado River Indian Reservation. 21 lks. E. of the closing cor. of secs. 35 and 36, inside Reservation, which is an iron post, 3 ft. long, 1 in. in diam., set 24 ins. in the ground, witnessed as described by the surveyor general, marked on brass cap,

C C
CR IR
R22W | T 4N
S35 | S36

1912

At the point of intersection, Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for closing cor. of that portion of secs. 35 and 36, outside Reservation, marked on brass cap,

4. Subdivision of a portion of fracl. T.4 N., R.22 W.

Chains.

CR IR
 S35 S36
 T 4 N R22 W
 C C
 1916

and raise a mound of stone, 2 ft. base, 1½ ft. high,
 S. of cor.

Land, level.

Soil, gravelly, 2nd rate.

Timber, scattering mesquite and willow.

Undergrowth, arrow weed and greasewood.

From the cor. of sec. 35, and fracl. sec. 34 on S. bdy. of Tp.,
 described in Book "N."

N. 0° 1' W., bet. sec. 35, and fracl. sec. 34.

Over river bottom, through dense timber and undergrowth.

13.60

Pole fence, brs. E. and W.

13.76

Intersect S. bdy. of Colorado River Indian Reservation,

26 lks. E. of the closing cor. of sec. 35 and fracl. sec.

34 inside reservation, which is an iron post 3 ft. long,

1 in. in diam., 26 ins. in the ground, witnessed as de-

scribed by the surveyor general, marked on brass cap,

C C
 CR IR
 T 4 N R22 W
 S34 S35

1912

At the point of intersection,

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in
 the ground, for closing cor. of that portion of sec. 35,
 and fracl. sec. 34, outside Reservation, marked on brass
 cap,

CR IR
 S34 S35
 T 4 N R22 W
 C C
 1917

from which,

A willow, 10 ins. diam., brs. S. 41½° E., 67 lks.
 dist., marked T 4 N R 22 W S 35 CCTBT.

A willow, 10 ins. diam., brs. S. 67½° W., 43 lks.
 dist., marked T 4 N R 22 W S 34 CCTBT.

Land, level river bottom.

Soil, 2nd rate.

Timber, mesquite and willow.

Undergrowth, arrow weed.

GENERAL DESCRIPTION.

The portion of this Tp., subdivided as described in the
 foregoing field notes is level, and is part of the Col-
 orado river bottom land, from which stream it is subject
 to overflow in flood seasons. The fracl. part of sec. 36
 included in this survey is mainly in the wash known as
 the Arroyo La Paz, which forms the S. bdy. of the Colorado
 River Indian Reservation. This wash drains into a
 series of sloughs in the fracl. part of sec. 35, south of
 the Reservation bdy. The soil is gravelly, 2nd rate.
 The timber is a dense growth of mesquite, willow, and cotton-
 wood, and the undergrowth consists of arrow weed and
 greasewood.

Meander of left bank of Colo. River, within portion of fracl. T4 N R22 W 5

Chains.

From the meander cor. on the S. bdy. of the Colorado River Indian Reservation, set in Feb. 1912, at its intersection with left bank of Colorado River, which is an iron post, properly set, marked and witnessed, as described by the surveyor general,
 With meanders in fracl. sec. 34.
 Over river bottom land, through dense timber and undergrowth.
 West, 24.72 chs. Over land subject to overflow.
 To present location of river bank.
 S. 10° E. 5.20 "
 S. 17° E. 9.00 " To the meander cor. of fracl. secs. 3 and 34, on the S. bdy. of Tp., described in Book "N."
 Land, level river bottom.
 Soil, 2nd rate.
 Timber, dense willow and mesquite and scattering cottonwood.
 Undergrowth, dense arrow weed.

Boundaries of that portion of fracl. T.4 N., R. 22 W., which is outside the bdy. of Colo. Indian Res.
 Latitudes, Departures, and Closing Errors.

Line designated.	Course.	Dist.	Latitudes.		Departures.	
			N.	S.	E.	W.
South boundary	West,	188.90				188.90
West boundary (Meanders of Left Bank of Colo. River)	N. 17° W.	9.00	8.61			2.63
	N. 10° W.	5.20	5.12			.90
North boundary (South bdy. Colo. River Ind. Res.)	East	24.72			24.72	
	East, S. 80° 10' E.	89.23 79.40		13.56	89.23 78.23	
Totals,			13.73	13.56	192.18	192.43
			13.56		192.18	192.18
Error in latitude,			0.17			
Error in departure,					1.56	0.25

CERTIFICATE OF UNITED STATES SURVEYOR.

I, William B. Kimmel, U. S. Surveyor, hereby certify upon honor that, in pursuance of special instructions received from the U. S. Surveyor General for Group 47, Arizona, bearing date of the 5th day of February, 1915, 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, and Meanders of the Left Bank of the Colorado River, within that portion of Fracl. Township 4 North, Range 22 West, of the Gila and Salt River Base and Meridian, in the State of Arizona, which is outside the Boundary of the Colorado River Indian Reservation, ~~of the~~ ~~Meridian, in the State of~~, 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 47, Arizona, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

William B. Kimmel
U. S. Surveyor.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, March 20, 1918.

The foregoing field notes of the survey of the Subdivision Lines, and Meanders of the Left Bank of the Colorado River, within that portion of fracl. TOWNSHIP 4 NORTH, RANGE 22 WEST,

of the Gila and Salt River Base and Meridian, in the State of Arizona, which is outside the boundary of the Colorado River Indian Reservation,

executed by William B. Kimmel, U. S. Surveyor,

under his special instructions dated Feby. 5, 1915, for Group 47, 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 O. Frost
U. S. 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.~~