

3140

4-679

BOOK 3140

Book "H"

(Subdivisions)

# FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

and

MEANDERS OF THE LEFT BANK OF THE COLORADO RIVER,

WITHIN FRAC. TOWNSHIP 21 NORTH, RANGE 22 WEST,

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

*In the State of Arizona.*

EXECUTED BY

Theo. O. Johnston,

*In the capacity of U. S. Surveyor, under instructions dated January 6, 1915, issued by the United States Surveyor General to govern surveys included in Group No. 44, which were approved by the Commissioner of the General Land Office, January 26, 1915.*

*Survey commenced April 13, 1915.*

*Survey completed April 13, 1915.*

*Executed under Assignment  
Instructions dated Jan. 31, 1915.*

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BOOK 3140

Book "H"

(Subdivisions)

Group 44

See Special Index Diagram.

# INDEX DIAGRAM.

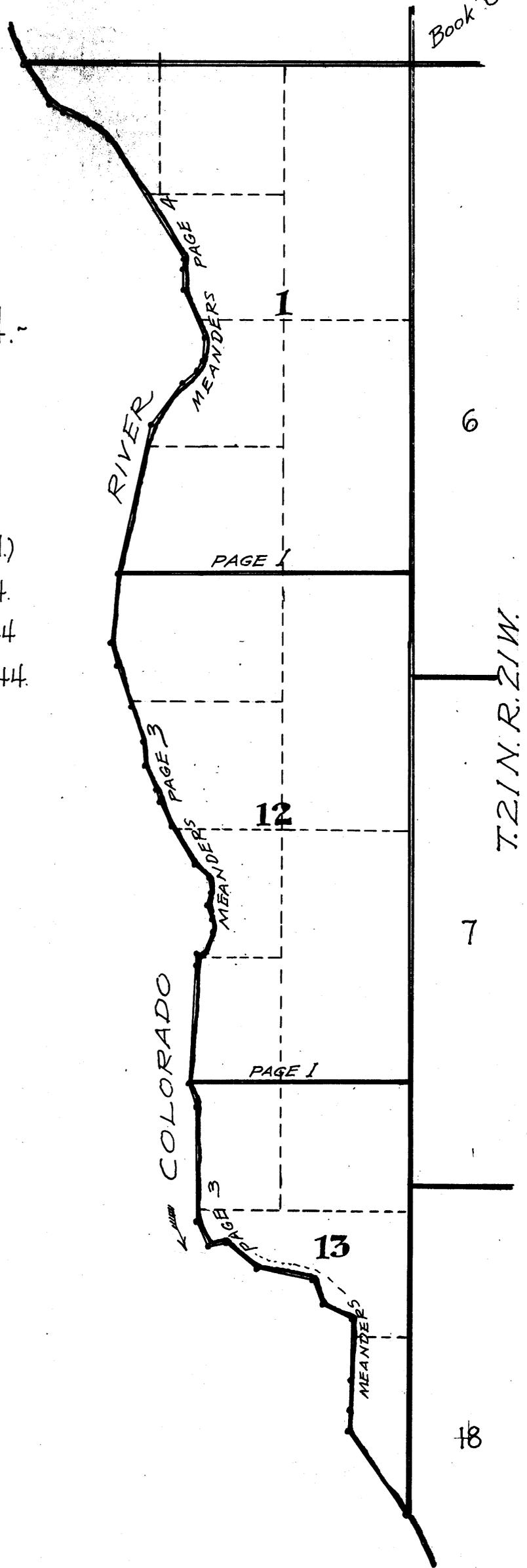
*Township* ..... , *Range* .....

6	5	4	3	2	1
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Book "J" (1A)

INDEX-DIAGRAM.  
Book "H" ~ Group 44. ~  
Arizona  
Frac. T. 21 N. ~ R. 22 W. ~

- Notes in this book (indexed.)
- Notes in book "A" Group 44.
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- Notes in book "K" Group 44.



## Chains

Survey commenced Mar. 9, 1915, and executed by Theo. O. Johnston, U. S. surveyor, using a Young and Sons' light mountain transit No. 8493, which is described, together with record of approval by the assistant supervisor of surveys and field tests, in Books "A" and "B".

All measurements made with steel tapes and clinometers.

Subdivision lines were run by transit lines projected by means of carefully measured angles, from a meridian determined by observation on Polaris at western elongation, near the N. bdy. of sec. 16, T. 21 N., R. 20 W., a record of which is contained in Book "B".

Meander lines were run by solar observations, a record of the test of solar apparatus appearing in Book "G".

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 Apr. 13, 1915. From cor. of frac. secs. 12 & 13 on E. bdy. of Tp., as described in Book "A," and 13, on the N. bdy., I run West, on a true line, bet. frac. secs. 12 and 13.

over mountainous land, across low sand ridges.  
 10.85 Sand ridge bears NW. and SE.; road on top of same.  
 15.10 Wash, 100 lks. wide, course N. 22 $\frac{1}{2}$ ° W.  
 20.30 Sand ridge bears N. and SE.; desc. broken W. slope.  
 35.04 To left bank of Colorado river, brs. N. 4° E. and S. 8° E.  
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of frac. secs. 12 and 13, with brass cap, marked  
     MC in W. half,  
     T 21 N S 12 in NE., and  
     S 13 R 22 W in SE. quadrant; and  
     1915 in S. rim;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, E. of cor.  
 Land, mountainous.  
 Soil, sandy and rocky; 4th rate.  
 No timber.

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 From cor. of fractional secs. 1 and 12, described in Book "A,"

West, on a true line, bet. frac. secs. 1 and 12.  
 over rolling mountainous land, through scattering undergrowth.  
 Desc. W. slope of low sand ridge.  
 2.00 Asc. E. slope of low sand ridge.  
 5.00 Ridge bears N. and S.; Thence along broken N. slope.  
 12.00 Line runs along broken S. slope.  
 20.00 Canyon, course N.; asc. over broken E. slope.  
 21.90 Ridge bears N. and S.; desc. W. slope.  
 22.10 S. edge of ravine, 3 chs. wide, 3 ft. deep, course W.; Thence along broken NW. slope.  
 40.00 Set an iron post, 3 ft. long, 1 in. diam., in a mound of stone, for  $\frac{1}{4}$  sec. cor., with brass cap, marked  
      $\frac{1}{4}$  S 1 in N. half,  
     S 12 in S. half, and  
     1915 in S. rim;  
 and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. Impracticable to dig pits or set cor. in the ground.  
 42.70 Road to Sheep Trail mill bears N. and S.  
 45.00 Enter river bottom; bears N. and S.; dense undergrowth in bottom.  
 46.59 To left bank of Colorado river, brs. N. 12 $\frac{1}{2}$ ° E. and S. 5° W.  
 Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the ground, for meander cor. of frac. secs. 1 and 12, with brass cap, marked

## Chains

MC in W. half,  
T 21 N S 1 in NE., and  
S 12 R 22 W in SE. quadrant; and  
1915 in S. rim;  
dig a pit, 36x36x12 ins., 8 ft. E. of cor., and raise  
a mound of earth, 4 ft. base, 2 ft. high, E. of cor.  
Land, rolling mountainous and level.  
Soil, gravelly, sandy and rocky; 4th rate.  
No timber.  
Undergrowth, mesquite.

Apr. 13, 1915.

Meanders in fractional Township 21 N., R. 22 W.

Meanders of Left Bank of Colorado River,--Upstream.  
Apr. 13, 1915.

I commence at the meander cor. of fracl. secs. 13 and 18, described in Book "A" and "B".  
At this cor. I set off 35°12' on the lat. arc; and 8°50' N. on the decl arc; and at 9h 00m a.m., l.m.t., determine a meridian with the solar.  
Thence I run with meanders on W. bdy. of fracl. sec. 13 through dense undergrowth.

- N. 34 1/2° W. 16.50 chs. At 9.65 chs. on this course commence to asc. SE. slope, through scattering brush.
- N. 4 1/4° E. 2.80 "
- N. 2 1/2° E. 4.80 "
- N. 2° E. 9.90 " Along top of cliff, 100 ft. high; Known as "Bull's head rock."
- N. 63 1/2° W. 5.80 " Along SW. slope of cliff, 75 ft. high.
- N. 23 1/2° W. 3.70 " Enter dense brush, and asc. over SE. slope of cliff 100 ft. high.
- N. 79 3/4° W. 9.10 " Desc. along SW. slope of cliff.
- N. 49 3/4° W. 7.00 " Enter scattering brush, from dense brush.
- S. 74 1/4° W. 2.60 "
- N. 21 1/2° W. 4.30 " over level rocky land to foot of rocky bluff. Leave undergrowth.
- N. 2 1/2° W. 17.80 " Enter dense undergrowth.
- N. 8° W. 4.20 " to meander cor. of fracl. secs. 12 and 13

Land, mountainous and level.  
Soil, rocky and sandy; 4th rate.  
No timber.  
Undergrowth, mesquite, willow and arrow-weed.

Thence on W. bdy. of fracl. sec. 12, over level bottom land, through dense undergrowth.

- N. 4 1/4° E. 19.00 chs. At 9.00 chs. on this course, leave level land and asc. 100 ft. along broken SW. slope.
- N. 8 1/2° E. 1.30 " over broken NW. slope.
- East. 1.00 " along top of cliff, 100 ft. high.
- N. 21 1/2° E. 3.80 "
- N. 4° E. 2.20 "
- N. 23 1/2° W. 2.40 "
- N. 9 1/2° E. 2.10 "
- N. 4 1/2° W. 2.40 "
- N. 51 3/4° W. 2.70 "
- N. 31 1/4° W. 6.60 "
- N. 25° W. 4.80 "
- N. 14 3/4° W. 2.00 "
- N. 28 1/2° W. 4.20 "
- N. 8° W. 3.70 "
- N. 18 1/4° W. 6.10 "
- N. 21° W. 6.80 "
- N. 13° W. 3.60 "
- N. 5° E. 10.70 " To meander cor. of fracl. secs. 1 and 12.

Land, level and mountainous.  
Soil, sandy and rocky; 4th rate.  
No timber.  
Undergrowth, mesquite, willow and arrow-weed.  
At this meander cor. I set off 8°43' N. on the decl. arc; and at 12h 01m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 35°14'.

Apr. 13, 1915.

## Meanders of Left Bank of Colorado River,-- Upstream.

Apr. 12. 1915.

At the meander cor. of fracl. secs. 1 and 12, I set off  $35^{\circ}14'$  on the lat. arc; and  $8^{\circ}33'$  N. on the decl. arc; and at 2h 00m p.m., l.m.t., determine a meridian with the solar.

Thence I run with meanders on W. bdy. of fractional sec. 1. over sandy beach, at W. side of dense thicket.

N.  $10\frac{1}{4}^{\circ}$  E. 24.00 chs. At 21.00 chs. leave beach; line then runs over NW. slope.

At 24.00 chs., Pyramid Rock bears N.  $73\frac{1}{2}^{\circ}$  E., 150 lks. dist.; and Sheep Trail mill bears N.  $70^{\circ}$  E., about 15 chs. dist.

N.  $35\frac{3}{4}^{\circ}$  E. 8.10 "

N.  $52^{\circ}$  E. 2.90 "

N.  $34\frac{1}{2}^{\circ}$  E. 1.40 "

Enter dense undergrowth.

N.  $5\frac{3}{4}^{\circ}$  E. 3.70 "

N.  $22\frac{1}{4}^{\circ}$  W. 8.00 "

N.  $1\frac{1}{4}^{\circ}$  W. 3.50 "

N.  $8\frac{1}{4}^{\circ}$  E. 1.10 "

N.  $32^{\circ}$  W. 22.50 "

N.  $49^{\circ}$  W. 4.30 "

N.  $54\frac{1}{2}^{\circ}$  W. 3.20 "

N.  $66^{\circ}$  W. 2.80 "

N.  $33^{\circ}$  W. 7.30 "

Bank 8 ft. high; leave brush. To meander cor. of fracl. secs. 1 and 36, on N. bdy. of Tp., described in Book "A".

Land, level and mountainous,

Soil, sandy; 4th rate.

No timber.

Undergrowth, mesquite, willow, greasewood; and arrow-weed.  
Apr. 12, 1915.

For table of latitudes and departures, with closing errors, see Book "A".

## GENERAL DESCRIPTION.

This township consists of low, rough, broken mountainous land, absolutely worthless for any purpose. The Colorado river contains the only water.

The soil is principally rocks and gravel, with sand hills near the river, which forms the west boundary.

An old, deserted stamp mill stands near the center of sec. 1.

The only vegetation is some mesquite and willow brush near the river.

There are no settlers.

U. S. Surveyor.

BOOK 3140

FOR CERTIFICATE OF UNITED STATES SURVEYOR.

See Book "C"

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_, 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 \_\_\_\_\_ 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 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 U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
 this \_\_\_\_\_ day of \_\_\_\_\_, 191 \_\_\_\_\_



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Phoenix, Arizona, *March 9*, 1918.

The foregoing field notes of the survey of the \_\_\_\_\_  
 Subdivision Lines, and  
 Meanders of the Left Bank of the Colorado River, Within  
FRACTIONAL TOWNSHIP 21 NORTH, RANGE 22 WEST  
 of the Gila and Salt River Base and Meridian, in the State of Arizona,  
 executed by Theo. O. Johnston, U. S. Surveyor,  
 under his special instructions dated January 6, 1915, for Group 44 \_\_\_\_\_, 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. Smith*

U. S. Surveyor General.  
of Arizona.

~~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.~~