

2943

Book "K"

4-679

BOOK 2943

199

(Subdivisions)

# FIELD NOTES

OF THE SURVEY OF THE

Completion of the Subdivision lines

and

Meanders of the Left Bank of the Colorado River within

Fractional Township 15 North, Range 21 West

2943

Of the Gila and Salt River Base and Meridian,

In the State of ARIZONA

EXECUTED BY

OTIS ROSS

2943

In the capacity of U. S. Surveyor, under instructions dated December 28, 1914, issued by the United States Surveyor General to govern surveys included in Group No. 42, which were approved by the Commissioner of the General Land Office, January 22, 1915.

Survey commenced May 4, 1915

Survey completed May 10, 1915

Book "K"

Group 42, Arizona

Subdivisions & Meanders

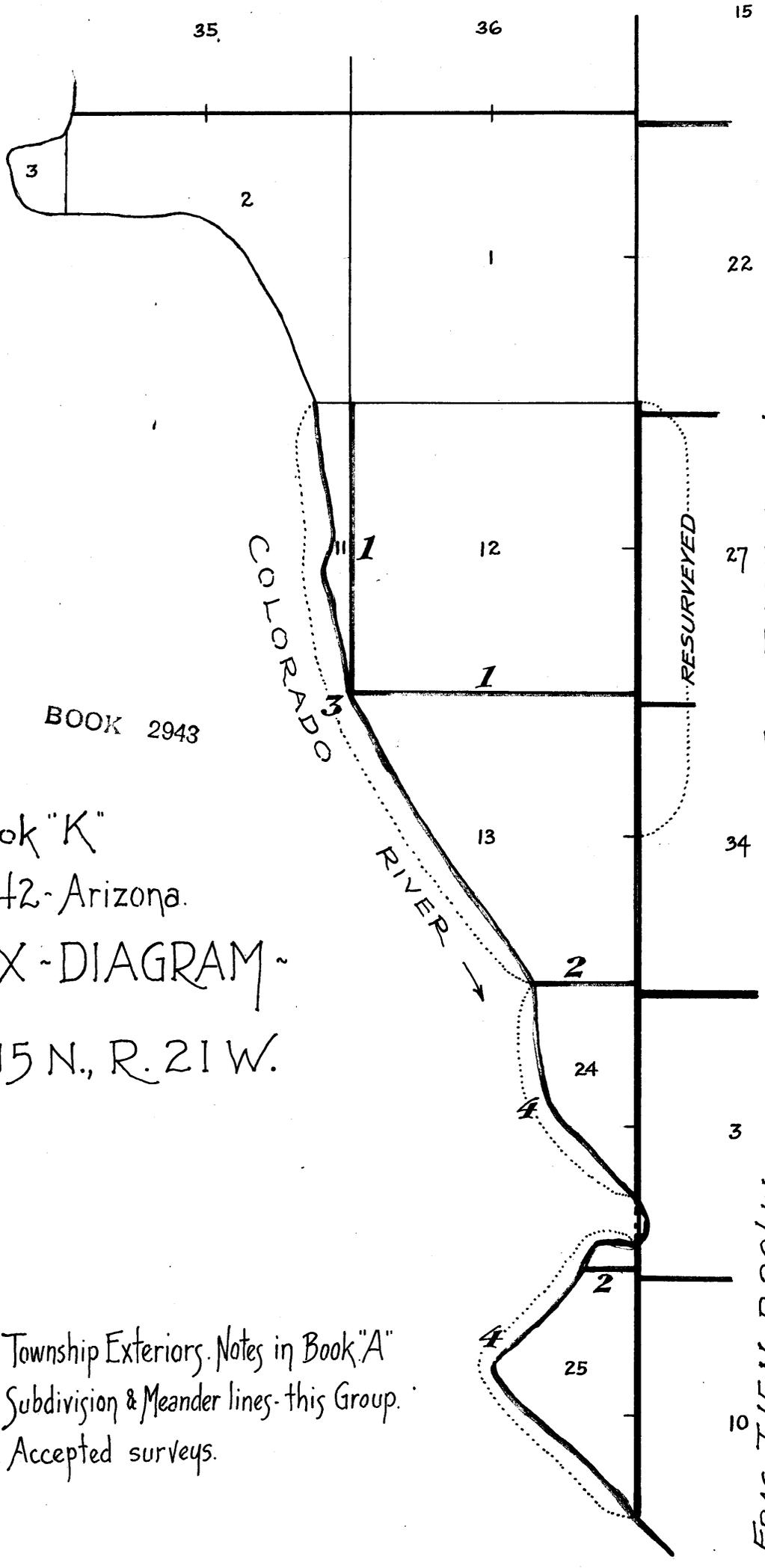
SEE SPECIAL INDEX DIAGRAM

# INDEX DIAGRAM.

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

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

BOOK 2943



BOOK 2943

Book "K"  
 Group 42 - Arizona.  
 ~ INDEX - DIAGRAM ~  
 FRAC. T. 15 N., R. 21 W.

- Township Exterior. Notes in Book "A"
- Subdivision & Meander lines - this Group.
- Accepted surveys.

FRAC. T. 15 N. - R. 20 1/2 W.

Completion of  
 Final Subdivision of Fractional T. 15 N. R. 21 W.

Chains.	
	<p>Survey commenced May 4, 1915, and executed by Otis Ross, U. S. Surveyor, with Young and Sons' light mountain transit No 8487<math>\frac{1}{2}</math> with Smith solar attachment. For description of instrument, and certificate of approval, see subdivision of frac. T. 14 N., R. 20 W. in book "H". For tests of adjustment, see subdivision of fractional T. 15 N., R. 20<math>\frac{1}{2}</math> W. in book "J".</p> <p>In the following field notes, the initials O. R. and J. G. refer to Otis Ross, U. S. Surveyor, and John Gonin, U. S. Transitman, respectively.</p> <p style="text-align: right;">May 4, 1915.</p>
	<p>May 7, 1915: At 8 hrs. 4 m., a.m., l.m.t., I set off 34° 42<math>\frac{1}{2}</math>' N. on the lat. arc; 16° 38<math>\frac{1}{2}</math>' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12, which is a lava stone, 6 X 10 X 8 ins. above ground, marked and witnessed as described by the Surveyor-General.</p> <p>Thence I run            S.0° 1' E., bet. sec. 12 and frac. sec. 11.            Over mountainous land, through scattering undergrowth.            Asc. 45 ft. to            4.92 Spur, slopes W. Desc. 265 ft. to            28.43 Center of wash, 2 chs. wide, course W. Enter bottom land, brs. NW. and SE.            40.00 Set a granite stone, 16 X 12 X 6 ins., 12 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on W. face; and raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable.            50.00 Center of wash, 1 ch. wide, course W. Asc. 285 ft. to            73.34 Spur, slopes W. Desc. SW. slope, 65 ft. to            80.00 Set a malpais stone, 18 X 16 X 5 ins., in a mound of stone, on the left bank of the Colorado River, at mean high water mark, for meander cor., and cor. of secs. 11, 12 and 13, marked MC on S. face; with 1 notch on E. and 4 notches on S. edge; and raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, W. of cor. Pits impracticable.</p> <p>Land, level and mountainous.            Soil, sandy and rocky, 3rd and 4th rate.            No timber.            Undergrowth, greasewood, mesquite, and palo verde.            Poor grass.</p> <p style="text-align: right;">May 7, 1915.</p>
	<p>May 4, 1915: At 7 hrs. 54 m., a.m., l.m.t., I set off 34° 42<math>\frac{1}{2}</math>' N. on the lat. arc; 15° 47' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12. Thence S.0° 1' E. on blank line for a dist. of 80 chs. where I set temp. cor. Thence I run, S.89° 50' E., on a random line, bet. sec. 12 &amp; frac. sec. 13.</p> <p>40.00 Set temp. <math>\frac{1}{4}</math> sec. cor.            79.96 Intersect the E. bdy. of the Tp., 12 lks. N. of the cor. of secs. 12 and 13, which is a stone, re-established by me, as described in Book "A".</p> <p>Thence I run            N.89° 45' W., on a true line bet. sec. 12 &amp; frac. sec. 13.            Over mountainous land, through scattering undergrowth.            Desc. 20 ft. to            5.00 Asc. 35 ft. to            12.95 Spur, slopes NW. Desc. SW. slope, 90 ft. to            28.08 Wash, 30 lks. wide, course SW. Asc. 15 ft. to            29.85 Desc. 45 ft. to            39.98 Set a malpais stone, 16 X 10 X 10 ins., 11 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., marked <math>\frac{1}{4}</math> on N. face; and raise a mound of stone, 2 ft. base, 1<math>\frac{1}{2}</math> ft. high, N. of cor. Pits impracticable.            40.40 Desc. 115 ft. to            59.75 Asc. 20 ft. to</p>

Chains.	
60.25	Desc. 40 ft. to
64.60	Asc. 100 ft. to
68.18	Spur, slopes S. Desc. 10 ft. to
69.27	Wash, course SW. Asc. 30 ft. to
71.02	Spur, slopes SW. Desc. 120 ft. to
79.96	Temp. cor. of secs. 11, 12, and 13 on Left bank of Colorado Land, mountainous. River. Soil, rocky, 4th rate. No timber. Undergrowth, greasewood, palo verde and cacti. May 4, 1915.
	May 8, 1915: At 8 hrs. 5 m., a.m., l.m.t., I set off $34^{\circ} 41'$ N. on the lat. arc; $16^{\circ} 55'$ N. on the decl. arc; and determine a meridian with the solar at the cor. of frac. secs. 13 & 24 on E. bdy. of Tp. established by me as described in book "A". Thence I run N. $89^{\circ} 45'$ W., on a true line, bet. frac. secs. 13 and 24. Over mountainous land, through scattering undergrowth. Desc. 170 ft. to 5.09 Wash, 50 lks. wide, course NW. Asc. 40 ft. to 7.18 Spur, slopes SW. Desc. 50 ft. to 8.23 Wash, 50 lks. wide, course SW. Asc. 40 ft. to 9.70 Desc. 30 ft. to 12.15 Asc. 150 ft. to 17.35 Desc. 40 ft. to 21.35 Asc. 30 ft. to 24.31 Spur, slopes SW. Desc. 255 ft., over cliffs, to 27.52 Enter bottom land, brs. NW. and SE. 28.02 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of frac. secs. 13 and 24, marked on brass cap 1915 on S. rim; MC W. of center; T15N R21W in N. half; S13 in NE., and S24 in SE. sector; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. No timber. Undergrowth, mesquite, greasewood and catclaw. No grass. May 8, 1915.
	May 10, 1915. From cor. of frac. secs. 24 & 25 on E. bdy. of frac. sec. of sec. 24 the Tp., which is an iron post, established by me, as described in Book "A", I run N. $89^{\circ} 45'$ W., on a true line, bet. frac. secs. 24 and 25. Over mountainous land, through scattering undergrowth. Asc. to 5.00 Spur, slopes N. Desc. 40 ft. to 7.94 Wash, 1 ch. wide, course SW. 14.16 Set a malpais stone, 16 X 10 X 8 ins., 11 ins. in the ground, on the left bank of the Colorado River, at mean high water mark, for meander cor. of frac. secs. 24 and 25, marked MC on W. face; with 2 grooves on S. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 4th rate. No timber.

Meanders of the Left Bank of the Colorado River  
within Fractional T. 15 N., R. 21 W. 3.

Chains.

Undergrowth, greasewood and palo verde.  
No grass.  
May 10, 1915: At this cor., I set off 17° 30' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 40' N.

Meanders of the left bank of the Colorado River, down stream.  
May 7, 1915.  
From the meander cor. of fracl. secs. 2 and 11, which is a stone, 20 X 8 X 5 ins., in a mound of stone, marked and witnessed as described by the Surveyor-General, I run with meanders in fracl. sec. 11.  
Over mountainous land, through scattering undergrowth.  
S. 9<sup>3</sup>/<sub>4</sub>° E. 40.60 chs.  
S. 24<sup>1</sup>/<sub>2</sub>° W. 1:70 "  
S. 52<sup>1</sup>/<sub>2</sub>° W. 2.50 "  
S. 22° W. 3.20 "  
S. 20° E. 9.75 " At 3.00 chs. on this course, mouth of wash, 2 chs. wide, course W.  
S. 4° E. 8.70 "  
S. 8° E. 16.20 " To the meander cor., and cor. of sec. 12 and frac. secs. 11 and 13.  
Land, mountainous.  
Soil, rocky, 4th rate.  
No timber.  
Undergrowth, greasewood and palo verde.

Thence I run with meanders in fracl. sec. 13.  
Over mountainous land, through scattering undergrowth.  
S. 42° E. 1.92 chs.  
S. 30° E. 7.20 " On this course, desc. 40 ft. to 2.20 chs., center of wash, 1 ch. wide, course W. Thence asc. over cliffs to 6.70 chs., spur, slopes SW. Desc.  
S. 25<sup>1</sup>/<sub>2</sub>° E. 20.50 " At 1.90 chs. on this course, wash, 50 lks. wide, course S. Asc. to 3.70 chs., spur, slopes SW. Desc. to 7.70 chs., wash, 50 lks. wide, course NW. Asc. to 16.90 chs., spur slopes SW. Desc. to end of course.  
S. 35<sup>1</sup>/<sub>4</sub>° E. 66.00 At 1.94 chs., on this course, mouth of wash, 2 chs. wide, course W. Asc. to 4.04 chs., spur, slopes SW. Desc. to 5.40 chs., thence over level bottom land, through dense undergrowth, to the meander cor. of fracl. secs. 13 and 24.  
Land, mountainous and bottom land.  
Soil, sandy and rocky, 3rd and 4th rate.  
No timber.  
Undergrowth, greasewood, mesquite, cat claw, arrow-weed and willow.  
May 7, 1915: At this cor., I set off 16° 41' N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is 34° 41' N.  
May 7, 1915.

## Meanders of Left Bank of the Colorado River

4

within Fractional T. 15 N. R. 21 W.

Chains.

Meanders of the left bank of the Colorado River, down stream.

May 8, 1915. From Meander cor. of frac. secs. 13 & 24

I run in frac. sec. 24 (northern portion)

Over bottom land, through dense undergrowth.

S.  $1\frac{1}{2}^{\circ}$  E. 16.90 chs. At 10.75 chs. on this course, leave bottom land, asc; over broken cliffs, 80 ft. to end of course.

S.  $8^{\circ}$  E. 7.30 " Thence over rolling land.

S.  $22\frac{1}{2}^{\circ}$  E. 5.30 "

S.  $17^{\circ}$  E. 5.80 "

S.  $43\frac{1}{2}^{\circ}$  E. 33.54

Desc. 80 ft. to end of course.

Leave bluffs, enter bottom land, brs. NE. and SW. Thence over bottom land, through

dense undergrowth, to the northern meander cor. of frac. secs. 3 and 24 on E. bdy. of Tp. established by means of

described in book "A".

frac. sec. 3 and 24.

Land, level and broken.

Soil, sandy and rocky, 3rd and 4th rate.

No timber.

Undergrowth, greasewood, mesquite, cat claw and arrow-weed.

No grass.

May 8, 1915: At this cor., I set off  $16^{\circ} 57\frac{1}{2}'$  N. on the decl. arc; and at apparent noon, I observe the sun on the meridian; the resulting lat. is  $34^{\circ} 40'$  N.

May 8, 1915.

May 10, 1915. From the southern meander cor. of frac. secs. 3 and 24 on E. bdy. of Tp., established by me as described

in book "A". I run with meanders in frac. sec. 24 (S. portion)

Over broken cliffs, through scattering undergrowth.

N.  $73^{\circ}$  W. 10.80 chs. At 5.80 chs. in this course, asc. 115 ft. to the end of course.

S.  $25^{\circ}$  W. 9.00 " Desc. 100 ft. to the meander cor. of frac. secs. 24 and 25.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood and palo verde.

Meanders of the left bank of the Colorado River, up stream.

From Meander cor. of frac. secs. 10 & 25 on E. bdy. of Tp., established by me as described in book "A" I run with meanders in frac. sec. 25.

Over broken bluffs, through scattering undergrowth.

N.  $29\frac{1}{4}^{\circ}$  W. 9.90 chs. Asc. 90 ft. to end of course.

N.  $50^{\circ}$  W. 35.20 " On this course, asc. 45 ft. to 5.00 chs.; thence desc. 95 ft. to 15.00 chs.; thence asc. 240 ft. to end of course.

N.  $38\frac{3}{4}^{\circ}$  W. 11.70 " Over rolling land.

N.  $28^{\circ}$  W. 2.60 "

N.  $48\frac{1}{2}^{\circ}$  E. 11.70 " Desc. 115 ft. to 5.00 chs.; thence over rolling land.

N.  $43\frac{1}{2}^{\circ}$  E. 25.35 " Desc. 130 ft. to 10.00 chs.; thence over rolling land to the meander cor. of frac. secs. 24 and 25.

Land, mountainous.

Soil, rocky, 4th rate.

No timber.

Undergrowth, greasewood and palo verde.

O. R.

May 10, 1915.

GENERAL DESCRIPTION.

This Tp., which lies in the Chemehuevis Mountains, is very broken and mountainous, the ridges ending in perpendicular precipices, over which in many places, it is impossible to chain. The Colorado River forms the west boundary of the Tp., running through gorges with an occasional area of bottom land, varying in width from a few chains to a quarter of a mile. This bottom land supports a dense growth of mesquite, cat claw, willow and arrow-weed. The vegetation in the remainder of the Tp. consists of greasewood and palo verde.

There are no settlers in the Tp.

**FINAL OATH OF UNITED STATES SURVEYOR.**

See Book No. \_\_\_\_\_

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, April 10 \_\_\_\_\_, 1917.

The foregoing field notes of the survey of the Completion of Survey of the Subdivision lines and Meanders of the Left Bank of the Colorado River within Fractional Township 15 North, Range 21 West, of the Gila and Salt River Base and Meridian, \_\_\_\_\_, in the State of Arizona

executed by Otis Ross, U. S. Surveyor, under the special instructions dated December 28, 1914 for Group 42, Arizona, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

\_\_\_\_\_  
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.~~