

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

AND

COMPLETION SURVEY

OF THE SUBDIVISION OF

TOWNSHIP 7 SOUTH, RANGE 21 WEST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

Robert S. Kaiser, Cadastral Surveyor

Robert C. Yundt, Cadastral Surveyor, (Chief of Party)

Under special instructions dated September 15, 1960, which provided
for the surveys included under Group No. 355, approved September 22, 1960
and assignment instructions dated September 26, 1960

Survey commenced December 8, 1960

Survey completed February 2, 1961

1A

BOOK 4588

INDEX DIAGRAM

Township 7 SOUTH, Range 21 WEST

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Township 7 South, Range 21 West, Gila and Salt River Meridian, Arizona

Chains

The original survey of the south, east, and portions of the west and north boundaries, and all of the subdivision except sections 6, 7, and 18 of Township 7 South, Range 21 West, Gila and Salt River Meridian, Arizona, was executed by Francis E. Joy in 1930. The northern three miles of the west boundary were surveyed as the east boundary of Township 7 South, Range 22 West, and the west mile of the north boundary as the south boundary of Township 6 South, Range 21 West, both concurrently executed under this group. The following field notes are those of a dependent resurvey of the lines between sections 18 and 19, 17 and 18, 7 and 8, and between sections 5 and 6, and a completion survey in sections 6, 7, and 18 and the meanders of the left bank of the Colorado River in sections 6 and 7.

The dependent resurvey is a restoration of the lines of the original survey in their true original positions according to the identified evidence of that survey. Before remonumenting an original corner position, or restoring a lost corner, the lines of the original survey were retraced and search made for the original corner monuments and other calls of the field notes, and for collateral evidence of later date. After completing the necessary retracements and searches, the rules of proportionate measurement were applied, or record positions used in those cases where no opposite corner was found, in order to ascertain the position of each lost corner, and when duly identified or restored the corner positions were monumented with iron posts. In order to simplify the record only the true line notes referring to the completed resurvey are supplied here.

The resurvey was executed with W. & L. E. Gurley solar transit No. 590906, the property of the Bureau of Land Management and constructed in accordance with their standard specifications. The direction of the lines of the resurvey were determined by reference to altitude observations on the sun or hour angle observations on Polaris, made on line during the field work. The lines were carried forward as transit lines and checked by succeeding observations. The measurements were made with Chicago steel ribbon tapes, eight chains in length. These tapes were graduated every link for the first chain and thereafter at intervals of ten links. The tapes were tested by comparison with a Lufkin steel standard tape, one chain in length and found to be correct. The measurements were made on the slope, the vertical angle of each interval determined by the use of clinometers, and the slope distances properly reduced to horizontal equivalents for use in these notes.

The geographic position of the corner of sections 17, 18, 19, and 20, Township 7 South, Range 21 West, determined from the data contained on the quadrangle sheet of the U. S. Geological Survey is as follows: Latitude $32^{\circ} 48' 58''$ N. and longitude $114^{\circ} 26' 37''$ W. The mean magnetic declination was found to be $14^{\circ} 30'$ East.

Dependent Resurvey of a Portion of the Subdivision of Township 7 South, Range 21 West

Reestablishment of the Surveys Executed by Francis E. Joy in 1930

Beginning at the corner of sections 17, 18, 19, and 20. Marked by an iron post, 2 ins. in diameter, firmly set in the ground and conforming to the official record.

West, on dependent resurvey between sections 18 and 19.

Over low rolling hills and desert land.

40.04

The quarter corner of sections 18 and 19, marked by an iron post, 1 in. in diameter, firmly set in the ground and conforming to the official record.

Dependent Resurvey of a Portion of the Subdivision of T. 7 S., R. 21 W.

<p>Chains</p> <p>11.60</p> <p>14.60</p> <p>14.80</p> <p>15.20</p> <p>32.00</p> <p>34.50</p> <p>39.00</p> <p>42.95</p> <p>39.99</p> <p>40.03</p>	<p>West, beginning new measurement.</p> <p>East edge of Gila Gravity Main Canal, bears NB. and SW., canal 1 chs. wide, flows SW.</p> <p>W. bank of canal.</p> <p>Gravel access road paralleling canal.</p> <p>Thence through scattered to medium growth of mesquite and palo verde. Over nearly level desert land.</p> <p>Gravel access road, bears N. and S., ascend 30 ft. over E. slope of small hill.</p> <p>Top of hill; descend 30 ft. over W. slope of hill.</p> <p>The witness closing corner of sections 18 and 19, marked by an iron post, 2 ins. in diameter, firmly set in the ground and conforming to the official record. From this point the witness corner of sections 13 and 24, T. 7 S., R. 22 W., marked by an iron post, 2½ ins. in diameter, conforming to the record of the dependent resurvey of that township, concurrently executed, bears S. 73° 54' W., 4.11 chains distant.</p> <p>Intersect the W. boundary of the township at a point 3.70 chains N. (by calculation) of the true point for the corner of sections 13 and 24, T. 7 S., R. 22 W. and 1.26 chains N. of its witness corner, heretofore described.</p> <p>The point of intersection, and true point for the closing corner of sections 18 and 19 falls in the edge of Mitty Lake where the corner monument cannot be established.</p> <p>Land, small rolling hills to nearly level desert.</p> <p>Soil, sandy to rocky.</p> <p>Timber, scattered growth of palo verde, mesquite and willows.</p> <hr/> <p>From the corner of sections 17, 18, 19, and 20, heretofore described.</p> <p>N. 00° 02' E., on dependent resurvey between sections 17 and 18.</p> <p>Over low rolling hills and desert land.</p> <p>The quarter section corner of sections 18 and 17, marked by an iron post, 1 in. in diameter, firmly set in the ground and conforming to the official record.</p> <hr/> <p>N. 00° 02' E., beginning new measurement</p> <p>The point for the corner of sections 7, 8, 17, and 18, at proportionate distance; there is no remaining evidence of the original corner. Set an iron post, 30 ins. long, 2½ ins. in diameter, 24 ins. in the ground, with brass cap marked:</p> <p style="text-align: center;">T7S R21W S7 S8 S18 S17</p> <p style="text-align: center;">1960</p> <p>Land, low rolling hills and nearly level desert.</p> <p>Soil, sandy to rocky.</p> <p>Timber, none.</p>
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Dependent Resurvey of a Portion of the Subdivision of T. 7 S., R. 21 W.

Chains	The quarter section corner of sections 8 and 17, T. 7 S., R. 21 W., is marked by an iron post 1 inch in diameter, firmly set, properly marked, conforming to the official record.
	Thence: N. 89° 50' W., on dependent resurvey between sections 8 and 17. Over low sand hills, through scattered undergrowth.
39.88	Record distance. The restored corner of sections 7, 8, 17, and 18. Land, rolling sand hills. Soil, loose sand. Timber, none. Undergrowth, creosote bush and weeds.
	West on original survey between sections 7 and 18. Over nearly level desert land.
6.70	E. bank Gila Gravity Main Canal, flows S.
7.40	W. bank, with access road on top of same.
16.40	E. shore of Mitty Lake; thence across lake.
40.00	The point for the quarter section corner of sections 7 and 18 falls in Mitty Lake. Impossible to monument or witness this point.
73.00	W. shore of lake; thence over marshy bottom land subject to overflow; through medium dense underbrush.
83.00	The closing corner of sections 7 and 18, marked by an iron post 2½ ins. in diameter, firmly set, properly marked as described in the official record of concurrent resurveys of T. 7 S., R. 22 W. Land, level river bottom. Soil, sand. Timber, none except in extreme W. portion.
	From the restored corner of sections 7, 8, 17, and 18. N. 00° 01' E., on dependent resurvey between sections 7 and 8. Over nearly level desert land.
29.00	E. bank Gila Gravity Main Canal, bears NE. and SW., 1 chainwide, flows S.
32.40	W. bank of canal bears N. and S., with access road on same.
33.60	Enter level bottom land with heavy growth of willows, arrow weeds, and cattails.
40.05	The quarter corner of sections 7 and 8, marked by an iron post, 1 inch in diameter, firmly set in the ground, and conforming to the official record. This corner falls in marshy area subject to overflow.
	North, beginning new measurement. Continue through marshy land, with dense undergrowth.
39.90	True point for the corner of sections 5, 6, 7, and 8, at a point

Dependent Resurvey of a Portion of the Subdivision of T. 9 S., R. 21 W.

<p>Chains 1.40</p>	<p>1.40 chs., N. 89° 55' W. of its witness corner marked by an iron post, 2 ins. in diameter, firmly set, conforming to the official record.</p> <p>Land, nearly level desert to marshy river bottom. Soil, sand. Timber, S. ½, none; N. ½ medium to heavy growth of cattails, arrow weeds, salt cedar, and mesquite.</p>
	<p>Begin at the true point for the corner of sections 5, 6, 7, and 8.</p> <p>Thence: West, on original survey between sections 6 and 7. Over marshy area at N. end of Mitty Lake, with heavy growth of underbrush.</p>
<p>12.00</p>	<p>Continue over bottom land subject to overflow, through dense undergrowth.</p>
<p>40.00</p>	<p>The point for the quarter of sections 6 and 7.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diameter, 26 ins. in the ground, with brass cap marked:</p> <p style="text-align: center;">T7S R21W ¼ S6 S7 1961</p>
<p>63.64</p>	<p>Left bank of the Colorado River, bears N. 6° E. and S. 9° W., course S. Point for the meander corner of sections 6 and 7.</p> <p>Set an iron post, 30 ins. long, 2½ ins. in diameter, 25 ins. in the ground, with brass cap marked:</p> <p style="text-align: center;">T7S S6 MC / S7 R21W 1961</p>
	<p>From which: The meander corner of sections 21 and 28, marked by an iron post conforming to the record of the 1961 resurvey, T. 15 S., R. 24 E., San Bernardino Meridian, bears N. 08° 16' W., 17.02 chains.</p> <p>Land, level bottom Soil, sandy clay loam Timber, none. Undergrowth, mesquite salt cedar, cattails and willows.</p>
	<p>From the corner of sections 5, 6, 7, and 8. N. 00° 13' E., on dependent resurvey between sections 5 and 6. Over marshy land, through heavy underbrush.</p>
<p>9.00</p>	<p>Leave marsh; enter nearly level desert land with scattered undergrowth.</p>
<p>38.00</p>	<p>Gravel access road to Gila Gravity Main Canal, bears NNW. and SSE.</p>
<p>39.00</p>	<p>W. bank of the Gila Gravity Main Canal, 1 chain wide, bears SSE. and NNW., course SSE.</p>

Dependent Resurvey of a Portion of the Subdivision of T. 7 S., R. 21 W.

Chains
40.12

The point for the quarter section corner of sections 6 and 7, at proportionate distance, falls in the Gila Gravity Main Canal; there is no remaining evidence of the original corner. Impracticable to monument this point.

46.00

E. bank of canal.

47.88

Point selected for the witness quarter corner of sections 5 and 6 falls on abandoned gravel access road to Gila Gravity Main Canal.

Set an iron post, 30 ins. long, 2½ ins. in diameter, 24 ins. in the ground and in a mound of stone, with brass cap marked:

T7S R21W

¼

S6 ↓ S5

WC

1961

79.81

The corner of sections 5, 6, 31, and 32 on the north boundary of the township in asphalt-paved road to Yuma Test Center and is marked by a bronze disk, 4 ins. in diameter, set in concrete, flush with the surface of the road, with top marked:

S31 | S32

S 6 | S 5

T7S

I accept this monument as the best remaining evidence of the original position of the corner.

Land, nearly level desert, with small patch of marsh to the S.
Soil, sand.

Timber, medium to heavy growth of salt cedar, mesquite, creosote bush and arrow weeds.

Meanders of the Left Bank of the Colorado River in T. 7 S., R. 21 W.

Beginning at the true point for the meander corner of sections 1 and 6, on the left bank of the Colorado River, 1.70 chains S. of its witness meander corner, described in the official record of T. 7 S., R. 22 W.

Thence, with meanders of the left bank of the river, downstream in section 6.

Along a sloping bank 3 to 5 ft. high in dense undergrowth.

S. 89° 20' E., 9.09 chains.

N. 86° 22' E., 10.47 chains.

S. 64° 17' E., 5.12 chains.

S. 32° 30' E., 6.17 chains.

S. 32° 43' E., 6.14 chains.

S. 16° 24' E., 6.73 chains.

S. 02° 35' W., 9.99 chains.

S. 35° 21' W., 9.88 chains.

S. 51° 11' W., 8.41 chains.

S. 03° 05' W., 10.71. chains.

S. 06° 07' W., 3.43 chains. At the end of this course, intersect the meander corner of sections 6 and 7.

Meanders of the Left Bank of the Colorado River in T. 7 S., R. 21 W.

Chains

Land, level bottom land.
Soil, deep, sandy clay loam.
Timber, scattered mesquite, willows and cottonwood.
Undergrowth, salt cedar and arrow weeds.

Thence, in section 7, downstream

Along a sloping bank 5 to 7 ft. high in dense undergrowth.

S. 08° 56' W., 4.15 chains.

S. 16° 43' W., 9.54 chains.

S. 18° 56' W., 14.50 chains.

S. 32° 59' W., 10.89 chains.

S. 45° 45' W., 7.60 chains. At the end of this course, intersect the meander corner of sections 7 and 12.

Land, level bottom land.
Soil, deep, sandy clay loam.
Timber, mesquite, willows, and cottonwood.
Undergrowth, salt cedar and arrow weeds.

GENERAL DESCRIPTION

The area covered by the present survey lies along the eastern bank of the Colorado River which follows along the edge of gravel hills. The soil in the eastern part is a loose sandy gravel and along the river a deep heavy clay loam. The timber consists of stunted mesquite, salt cedar and willows and the undergrowth, arrow weed, tamarisk, and cattails. The Yuma Test Station of the U. S. Army is immediately east of the township. The Colorado River invades the western part of sections 6 and 7 and the Gila Gravity Main Canal follows along the river.

CERTIFICATE OF CADASTRAL ENGINEER

I, Robert S. Kaiser, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day of September, 1960, I have surveyed, under the supervision of Robert C. Yundt, Cadastral Surveyor, dependent-ly resurveyed and surveyed those parts of the subdivision, completing the subdivision of Township 7 South, Range 21 West

of the Gila & Salt River 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 said survey has been made in strict conformity with said instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in the specific manner described in the foregoing field notes.

April 28, 1961
April 28, 1961

Robert S. Kaiser, Cadastral Surveyor
Robert C. Yundt, Cadastral Surveyor

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT,
Washington, D. C., JUL 20 1961, 19

The foregoing field notes of the survey of dependent resurvey and completion survey in Township 7 South, Range 21 West of the Gila & Salt River Meridian, Arizona

executed by Robert S. Kaiser, under the supervision of Robert C. Yundt having been critically examined and found correct, are hereby approved.

Donald B. Casement, Cadastral Engineering Staff Officer, Chief, Division of Engineering

CERTIFICATE OF TRANSCRIPT

I CERTIFY that the foregoing transcript of the field notes of the above-described surveys in is a true copy of the original field notes.

Cadastral Engineering Staff Officer.