

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ORIGINAL

FIELD NOTES

OF THE

DEPENDENT RESURVEY

OF THE NORTH AND EAST BOUNDARIES,

DEPENDENT RESURVEY OF THE WEST BOUNDARY

AND SURVEY OF THE

SOUTH BOUNDARY OF SECTION 31

AND SURVEY OF THE MEANDERS OF

THE LEFT BANK OF THE COLORADO RIVER IN

SECTION 31, TOWNSHIP 6 SOUTH, RANGE 21 WEST

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA

EXECUTED BY

Robert S. Kaiser, Cadastral Surveyor

Paul G. Bauer, Surveying Technician

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 14, 1960

Survey completed January 27, 1961

1A

BOOK 4586

INDEX DIAGRAM

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1					

2

3

GPO 866119

Township 6 South, Range 21 West, Gila & Salt River Meridian, Arizona

Chains

The original survey of the west boundary of T. 6 S., R. 21 W., G. & S. R. M., Arizona, was executed by T. F. White, Deputy Surveyor, in 1874 and the east and north boundaries were surveyed by Dupree R. Averill and Marvin Litz in 1946. The present field work is confined to the resurvey and survey of the boundaries of section 31. The east and north boundaries were dependently resurveyed and the south boundary was projected west to an intersection with the independently resurveyed west boundary, which was initiated at the corner of sections 25, 30, 31, and 36, Ts. 6 S., Rs. 21 and 22 W., and projected south to the intersection. A major part of the west boundary lies in the Colorado River and the southern portion of this line was surveyed north to an intersection with the river.

In the dependent resurvey of the east and north boundaries all of the old corners were identified except the quarter section corner of sections 31 and 32 and this point was reestablished at proportionate distance. The true point for the corner of sections 25, 30, 31, and 36, T. 6 S., Rs. 21 and 22 W. was monumented at its record position from its recovered witness corner.

The geographic position of the corner of sections 31 and 32, Ts. 6 and 7 S., R. 21 W., determined from the data contained on the quadrangle sheet of the U. S. Geological Survey is as follows: Latitude $32^{\circ} 51' 34''$ N. and longitude $114^{\circ} 26' 54''$ W. The mean magnetic declination was found to be $14^{\circ} 30'$ E.

The resurvey was executed with W. & L. E. Gurley solar transit No. 541331, 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 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.

Survey of Portion of the South Boundary, T. 6 S., R. 21 W.

Beginning at the corner of sections 5, 6, 31, and 32, on the south boundary of the township, marked by an iron post, 4 ins. in diameter, firmly set, marked and witnessed as described in the record of the dependent resurvey of T. 7 S., R. 21 W., concurrently executed.

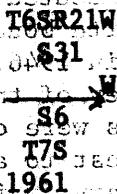
West, between sections 6 and 31, over level desert land.

- 9.50 Gravel road, bears N. and S.
- 12.65 E. bank, Gila Gravity Main Canal, course SSE.
- 13.55 W. bank, same canal.
- 14.35 Access road, paralleling W. bank of canal.
- 18.95 Steel pipeline from sewage settling tank, bears N. and S.
- 23.00 Enter dense undergrowth; thence over marshy bottom land subject to overflow.
- 40.00 Point for the $\frac{1}{4}$ section of sections 6 and 31 falls in marshy area where it is impracticable to perpetuate the corner monument.
- 45.82 Set an iron post 30 ins. long and $2\frac{1}{2}$ ins. in diameter 24 ins. in the ground, at the witness $\frac{1}{4}$ section corner of sections 6 and 31 with

Survey of Portion of the South Boundary, T. 6 S., R. 21 W.

Chains

brass cap marked:



Set a 4 ins. by 4 ins. by 7 ft. redwood post, 4 ft. in the ground alongside post.

Continue through heavy undergrowth.

55.30

Wire fence, bears N. and S.

62.00

Enter scattered undergrowth.

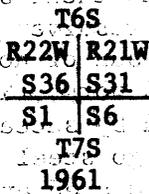
69.80

Bladed road, bears SSE. and NNW, enter dense undergrowth.

82.96

The corner of Ts. 6 and 7 S., Rs. 21 and 22 W., determined by the intersection of the south boundary of sections 31 projected west from the corner of sections 5, 6, 31, and 32, and a line projected south from the corner of sections 25, 30, 31, and 36, T. 6 S., Rs. 21 and 22 W.

Set an iron post, 30 ins. long, 2½ ins. in diameter, 26 ins. in the ground, with brass cap marked:



Set a redwood post, 7 ft. long and 4 ins. square, 40 ins. in the ground alongside the iron post as a guard stake.

Land, level desert land. Soil, sandy, with gravel in NE. quarter. Timber, mesquite, palo fierro, palo verde, willows and cottonwood. Undergrowth; arrow weed and salt cedar.

Independent Resurvey of Portion of West Boundary of T. 6 S., R. 21 W.

the Survey Executed by T. F. White in 1874.

Beginning at the corner of Ts. 6 and 7 S., Rs. 21 and 22 W.

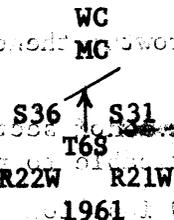
Thence:

North, on true line between sections 31 and 36.

Over level land, through scattered salt cedar, willows and arrow weed.

4.10

Set an iron post, 30 ins. long and 2½ ins. in diameter, 26 ins. in the ground, at the witness meander corner of sections 31 and 36, on the left bank of the Colorado River, with brass cap marked:



1961

Independent Resurvey of Portion of West Boundary of T. 6 S., R. 21 W.

Chains
4.40

Mean high water on the left bank of the Colorado River, bearing S. 35° 59' W. and N. 37° 11' E., and true point for the meander corner of sections 31 and 36, falls upon steeply sloping sand bank where the monument cannot be perpetuated.

Beginning at the corner of sections 25, 30, 31, and 36, hereinafter described.

Thence:

South on true line, between sections 31 and 36.

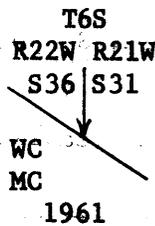
Over nearly level land, through scattered salt cedar, willows, and arrow weed.

13.90 Dirt road, bears E. and W.

14.50 Dirt road, bears N. 20° W. and S. 20° E.

15.60 Same dirt road, bears S. from N. 20° E.

21.70 Set an iron post, 30 ins. long, and 2½ ins. in diameter, 30 ins. in the ground at the witness meander corner of sections 31 and 36 on the high left bank of the Colorado River with brass cap marked:



From which:

A brass tablet, set in concrete and marked:

RS1S
STA. 765
ELEV. FT.
16.280

Above mean

Sea level bears S. 29° 25' E., 3.95 chains distant.

Set a redwood post, 7 ft. long and 4 ins. square, 40 ins. in the ground 2 lks. N. of the iron post, as a guard stake.

Descend 8 ft. bank to flood plain.

32.00 Mean high water mark on the left bank of the Colorado River, bears N. 55° 31' W. and S. 31° 17' E. and point for the meander corner of sections 31 and 36 falls on sandy bank, where the monument cannot be perpetuated.

The remainder of the line to the witness meander corner established at a point 4.10 chs. N. of the corner of Ts. 6 and 7 S., Rs. 21 and 22 W., lies in the Colorado River.

Land, level bottom land and flood plain.

Soil, sandy gravel and sand.

Timber, none.

Undergrowth, salt cedar and arrow weed.

Beginning at the corner of sections 5, 6, 31, and 32.

Thence:

N. 0° 10' W. on dependent resurvey between sections 31 and 32.

Dependent Resurvey of the East Boundary of Section 31.

Chains	Over nearly level land, through improved area of Yuma Test Station, a U. S. Military Installation.
39.90	Proportionate distance. There is no remaining evidence of the original $\frac{1}{4}$ section corner. Set a brass tablet, 3 ins. in diameter with a 4 ins. stem, in concrete flush with asphalt paved surface, at the restored $\frac{1}{4}$ section corner of sections 31 and 32, in a fenced enclosure of equipment storage yard, with brass cap marked: <div style="text-align: center;"> T6SR21W $\frac{1}{4}$ S31 S32 1961 </div> The corner falls 20 lks. N. of wire fence bearing E. and W.
42.00	Leave improved area; continue over small rolling hills and small washes, ascend 80 ft.
78.84	The witness corner of sections 29, 30, 31, and 32, marked by a 2 ins. iron post, set, marked; witnessed and described as in the official record; thence descend 20 ft.
79.80	Record position for the corner of sections 29, 30, 31, and 32, falls upon insecure land, where the corner monument cannot be perpetuated. Land, level desert land, S. portion, foot hills N. portion. Soil, gravelly. Timber, none. Undergrowth, scattered greasewood.

Dependent Resurvey of the North Boundary of Section 31.

	Beginning at the true point for the corner of sections 29, 30, 31, and 32.
	Thence:
	N. $89^{\circ} 56'$ W. on dependent resurvey between sections 30 and 31.
	Over S. slope of rolling hills.
29.60	Unimproved road, bears N. and S.
38.48	The witness $\frac{1}{4}$ sec. cor. of sections 30 and 31, monumented by a 1 ins. iron post, set, marked and witnessed as described in the official record.
39.50	Leave rolling hills.
39.75	E. edge of Gila Gravity Main Canal, bears NW. and SE., course SE.
39.98	True point for $\frac{1}{4}$ sec. cor. sections 30 and 31 falls in canal.
	Thence:
	N. $89^{\circ} 58'$ W., beginning new measurement.
1.25	W. edge of canal.
2.00	Center of unimproved road, parallels canal.
2.25	Enter bottom land. Continue through salt cedar and arrow weeds.
30.50	Power line, bears S. 45° E. and N. 45° W.
31.20	Center of oiled road, bears S. 45° E. and N. 45° W.

Dependent Resurvey of the North Boundary of Sec. 31

Chains
41.78

The witness section corner of sections 25, 30, 31 and 36, monumented by an 2½ ins. iron post, set, marked and witnessed as described in the official record.

Continue on same line with continuous measurement.

42.71

The corner of sections 25, 30, 31 and 32, at record distance from witness corner.

Set an iron post, 30 ins. long, 2½ ins. in diameter, 30 ins. in the ground, in cement, with brass cap marked:

T6S	
S25	S30
— —	
S36	S31
R22W	R21W
1961	

Set a redwood post, 7 ft. long and 4 ins. square 36 ins. in the ground 2 lks. north as a guard stake.

No other suitable accessories available.

Land, rolling foothills on east ½, level bottom land west ½.

Soil, gravelly east ½, and mixed sandy and gravelly west ½.

Timber, none.

Undergrowth, scattered arrow weed and salt cedar.

Meanders of the left bank of the Colorado River in T. 6 S., R. 21 W.

Beginning at the true point for the meander corner of sections 31 and 36 set 10:30 chs. south of the witness meander corner.

Thence: With meanders in section 31, downstream along an 8 ft. cut bank, through scattered cottonwoods, willows and salt cedar.

S. 31° 17' E., 13.95 chs.

S. 11° 40' E., 9.90 chs.

S. 07° 35' W., 6.03 chs.

S. 19° 47' W., 2.51 chs.

S. 22° 35' W., 8.23 chs.

S. 37° 11' W., 7.42 chs. At the end of this course intersect the true point for meander corner of sections 31 and 36, at a point 30 lks. north of the witness meander corner.

Land, level bottom land.

Soil, deep, sandy clay loam.

Timber, cottonwood, willows, mesquite, palo fierro.

Undergrowth, arrow weed, salt cedar, and weeds.

GENERAL DESCRIPTION

The land covered by the survey and resurvey is located in the bottom land along the left bank of the Colorado River. It is nearly flat and covered with patches of dense timber and undergrowth. The northeastern part of the area is low rolling hills. The timber consists of mesquite, willows, palo fierro and cottonwood. It is of no commercial value. The undergrowth is largely arrow weed and salt cedar, with lesser amounts of weeds and grass.

BOOK 4586

4-680
(Feb., 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
LaVern Griffin	Transitman
Dan. V. Coleman	Chainman
Jerald V. Thompson	Chainman
Max Asay	Chainman
Kimble D. Moffitt	Flagman
Douglas McInelly	Cornerman

CERTIFICATE OF CADASTRAL ENGINEER

I, We, Paul G. Bauer and Robert S. Kaiser, HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the _____ day of _____, We ~~have surveyed~~ under the supervision of Robert C. Yundt, Cadastral Surveyor, dependently ~~resurveyed~~ and surveyed the boundaries and meanders of the left bank of the Colorado River in Section 31 of Township 6 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 17, 1961
April 17, 1961
April 17, 1961

Robert C. Yundt
 Robert C. Yundt, Cadastral Surveyor
Robert S. Kaiser
 Robert S. Kaiser, Cadastral Surveyor
Paul G. Bauer
 Paul G. Bauer, Surveying Technician

CERTIFICATE OF APPROVAL

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

The foregoing field notes of the ~~XXXXXX~~ dependent resurvey and survey of the boundaries and meanders of the left bank of the Colorado River in Section 31, Township 6 South, Range 21 West of the Gila and Salt River Meridian, Arizona

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

Donald B. Cement
 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.