ORIGINAL

BOOK 4957

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(April 1965)
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF THE

SOUTH BOUNDARY OF THE COLORADO RIVER INDIAN RESERVATION,

A PORTION OF THE SUBDIVISIONAL LINES

AND

SURVEY OF ACCRETED LANDS

IN

TOWNSHIP 4 NORTH, RANGE 22 WEST,

Of the GILA AND SALT RIVER Meridian,

In the State of ARIZONA AND CALIFORNIA.

EXECUTED BY

William W. Finnicum, Cadastral Surveyor

Donevan C. Harris, Cadastral Surveyor

Under special instructions dated December 1, 19 61, which provided for the surveys included under Group Number 366, approved December 29, 1961, and assignment instructions dated January 24, 19 73.

Survey commenced January 26, 19 73

Survey completed February 10, 19 73

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INDEX DIAGRAM

Township 4 North, Range 22 West,
Gila and Salt River Meridian, Arizona and California

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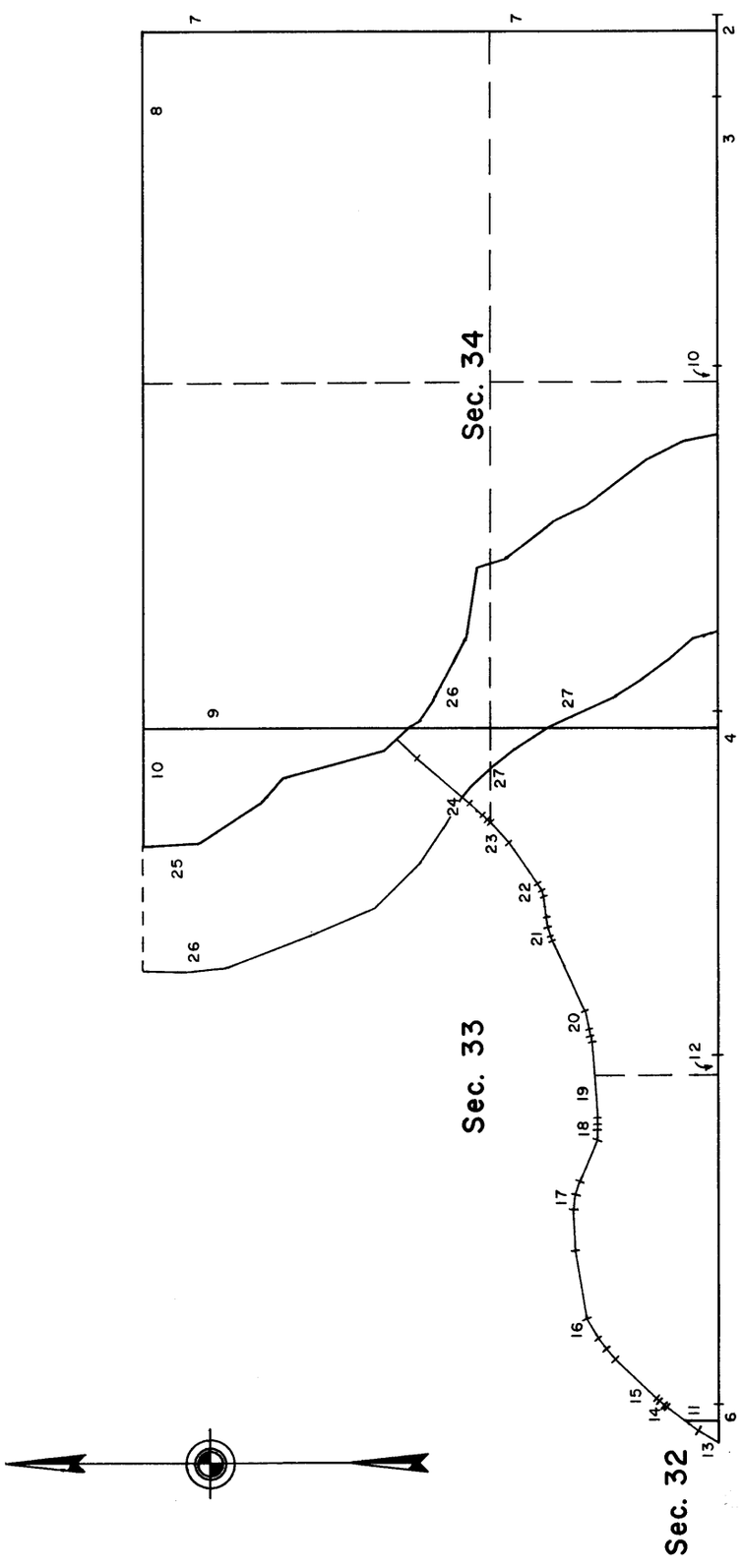
BOOK 4957

INDEX DIAGRAM

Township 4 North, Range 22 West,

of the Gila and Salt River Meridian, Arizona.



T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona

CHAINS

The history of surveys of the south boundary of the Colorado River Indian Reservation and township 4 north, range 22 west, Gila and Salt River Meridian, Arizona, pertaining to this resurvey is as follows:

Township 4 north, range 22 west, within the reservation was surveyed by Guy P. Harrington, U. S. Surveyor, in 1912, as shown on the official plat of survey approved December 6, 1915. That work included the re-establishment of the reservation's south boundary as originally surveyed by Chandler Robbins, Deputy Surveyor, in 1875, and its extension over lands added by accretion after the Robbins' survey. That portion of the township lying south of the reservation, consisting of fractional sections 34, 35, and 36, was surveyed by William B. Kimmel, U. S. Surveyor, in 1916-17, under Group No. 47, Arizona, as shown on the official plat of survey approved March 20, 1918. In 1962, Leonard W. Murphy initiated the resurvey and survey of that portion of township 4 north, range 22 west, lying along the Colorado River, under Group No. 366, Arizona; the work, however, was not completed and is unapproved. Certain corner points described in the following field notes were monumented by Murphy in 1962.

The following surveys are an extension of the original surveys, in front of section 34, township 4 north, range 22 west, out to the median line of the Colorado River as it existed in 1943. Since the date of the original surveys, and prior to July 20, 1943, the river moved westerly by normal process of erosion and accretion, to the creation of considerable added areas in front of the lands of the section as originally surveyed. From July 20 to October 13, 1943, a man-induced channelization of the river, known as the Ninth Ave. Cut, caused the river to abandon its natural channel. This relocation of the river had the like effect of isolating a considerable portion of the previously accreted lands on the westerly or California side of the river. Within established principles, it is held that the title of the accreted lands isolated by the avulsive cut are retained by the Colorado River Indian Reservation. It is also held that the title to the east half of the abandoned channel is reserved to the Indians by the Executive Orders establishing the reservation prior to Arizona's admission to the Union. To maintain regularity of the reservation's south boundary and subdivisional lines, surveyed areas have been surveyed within the extension of township 4 south, range 22 west. This work has been undertaken at the request of the Bureau of Indian Affairs as an administrative measure.

The median line of the abandoned channel was mathematically computed as a uniquely positioned line, everywhere equidistant from the closest point on two opposite shore lines. The positions of the shore lines were plotted with the Zeiss Planimat Plotter, from Bureau of Reclamation aerial photographs taken on March 27, 1942. These photographs constitute the best available evidence of the position of the river when the 1943 cut was made.

Preliminary to the resurvey the lines of the original survey were retraced and search was made for all corners and other calls of the record. Identified corners were remonumented in their original positions, lost corners were re-established and remonumented at record position. The retracement data were thoroughly verified and only the true line field notes are given herein. All lines not forming a closure were double chained.

T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona

CHAINS	
	The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1947, and the Special Instructions dated December 1, 1961, under Group No. 366, Arizona.
	The directions of the lines were determined by direct solar observations.
	The geographic position of the 1 Mile Post, on the south boundary of the Colorado River Indian Reservation, as scaled from the Blyth Northeast, California, Arizona, quadrangle map, prepared by the United States Geological Survey in 1951, is as follows:
	Latitude: 33° 38.3' N. Longitude: 114° 30.6' W.
	The mean magnetic declination is 14° East.
	Dependent Resurvey and Accretion Survey of a Portion of the South Boundary of the Colorado River Indian Reservation, T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona
	(Restoring the 1912 survey by Guy P. Harrington and the 1917 retracement by William B. Kimmel)
	Beginning at the 1 Mile Post, on the S. bdy. of the Colorado River Indian Reservation, T. 4 N., R. 22 W., set by Guy P. Harrington in 1912, monumented with an iron post, 2 ins. diam., firmly set, in concrete, flush with the brass cap, 24 ins. below the surface of the ground, with brass cap mkd.
	C R I R 1 M 1912
	The corner is located 5 lks. S. of a barbed wire fence, 4 strands, bearing E. and W.; 17 lks. N. of an irrigation canal, 12 lks. wide, 3 ft. deep, bearing E. and W., and 50 lks. S. of a graveled road, 20 lks. wide, bearing E. and W.
	N. 89° 47' W., on the S. bdy. of the Colorado River Indian Reservation.
	Over nearly level river bottom land, along a barbed wire fence, through dense undergrowth.
1.53	From this point the closing cor. of secs. 34 and 35, outside the reservation, set by William B. Kimmel in 1917, bears North, 0.02 chs. dist., monumented with the broken off concrete core of the original iron post, 1 in. diam., firmly set, 5 ins. below the surface of the ground.
1.80	True point for the closing cor. of secs. 34 and 35, on the S. bdy. of the reservation, hereinafter described.
9.23	The meander cor. of sec. 34, established by Guy P. Harrington in 1912, monumented with the broken off core of the original iron post, 1 in. diam., firmly set, 3 ins. below the surface of the ground.
	This point now becomes an angle point.

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Dependent Resurvey and Accretion Survey,
S. Bdy., C. R. I. R., T. 4 N., R. 22 W.

CHAINS	
	At the corner point Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. C R I R T 4 N R 22 W S 34 A P - 1 1973 Insert the remains of the original iron post inside the iron post, and set a steel fence post, 7 ft. long, alongside the iron post. The cor. is located 1 lk. S. of a barbed wire fence, 4 strands, bearing E. and W.; 17 lks. N. of an irrigation canal, 12 lks. wide, 3 ft. deep, bearing E. and W. and 50 lks. S. of a gravel road, 20 lks. wide, bearing E. and W. From this cor., a water pipe, 1 in. diam., firmly set, protruding 4 ins. above the ground, bears N. 88¼° E., 0.33 chs. dist.
	West, beginning new measurement, over accreted lands. Continue over nearly level river bottom land, through dense undergrowth.
24.72	Record position for the meander cor. of sec. 34, outside the reservation, based on the 1917 survey by William B. Kimmel. No monument established. Continue over nearly level river bottom land, through dense undergrowth.
30.77	Point for the 1½ Mile Post, on the S. bdy. of the Colorado River Indian Reservation, at 40.00 chs. longitudinally from the 1 Mile Post. Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. T 4 N R 22 W S 34 C R I R 1½ M 1973 The cor. is located 17 lks. N. of a concrete irrigation canal, 13 lks. wide, 3½ ft. deep, bearing E. and W., and 100 lks. S. of a graveled road, 20 lks. wide, bearing E. and W. Continue over nearly level river bottom land, through dense undergrowth.
32.555	Point for the ¼ sec. cor. of sec. 34 only, on the S. bdy. of the reservation, hereinafter described.
38.475	Point selected for a witness point on the S. bdy. of the reservation, on the present left bank of the Colorado River, 15 ft. high, bearing N. 10° 30' W. and S.

Dependent Resurvey and Accretion Survey,
S. Bdy., C. R. I. R., T. 4 N., R. 22 W.

CHAINS	
	River, course S.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. C R I R T 4 N R 22 W WP S 34 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	Descend over bank and across a portion of the Colorado River.
41.50	Rock levee, 1.00 ch. wide, 10 ft. high, bears N. 10° W. and S. 10° E.
	Thence across the main portion of the Colorado River.
61.19	Point selected for a witness point on the S. bdy. of the reservation, on the present right bank of the Colorado River, 3 ft. high, bears N. 16° 50' W. and S. 16° 50' E.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. W P C R I R T 4 N R 22 W S 34 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	Continue over nearly level river bottom land, through dense undergrowth.
70.77	Point for the 2 Mile Post, on the S. bdy. of the Colorado River Indian Reservation, at 80.00 chs. longitudinally from the 1 Mile Post.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. T 4 N R 22 W S 34 C R I R 2 M 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	Land, level river bottom. Soil, sandy loam. Timber, cottonwood; undergrowth, mesquite, salt cedar and arrowweed.
	West, on the 3rd mile along the S. bdy. of the Colorado River Indian Reservation, beginning new measurement.

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Dependent Resurvey and Accretion Survey,
S. Bdy., C. R. I. R., T. 4 N., R. 22 W.

CHAINS	
	Across level bottom land, through dense undergrowth.
1.77	Point for the closing cor. of secs. 33 and 34, on the S. bdy. of the reservation, hereinafter described.
3.50	Top of dirt fill, 10 ft. high, bears N. and S.; also enter irrigated field, edge bears N. and S.
22.78	Irrigation canal, 20 lks. wide, 4 ft. deep, bears N. and S.
36.03	Dirt road, 15 lks. wide, bears N. and S.
36.43	Irrigation canal, 20 lks. wide, 5 ft. deep, bears N. and S.
40.00	Point for the 2½ Mile Post, on the S. bdy. of the Colorado River Indian Reservation. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. T 4 N R 22 W S 33 C R I R 2½ M 1973 Set a steel fence post, 7 ft. long, alongside the iron post. Continue across irrigated field.
41.77	Point for the ¼ sec. cor. of sec. 34 only, on the S. bdy. of the reservation, hereinafter described.
68.90	Top of bank and dirt fill, edge bears N. and S.; desc. 8 ft. over bank.
69.13	Irrigation drain ditch, 20 lks. wide, 2 ft. deep, drains S.
80.00	Point for the 3 Mile Post, on the S. bdy. of the Colorado River Indian Reservation. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, below the surface of an irrigated field, with brass cap mkd. T 4 N R 22 W S 33 C R I R 3 M 1973 Set a steel fence post, 7 ft. long alongside the iron post. Land, nearly level river bottom farm land. Soil, sandy loam. Timber and undergrowth of cottonwood, mesquite, salt cedar, and arrowweed, only on the E. 3.50 chains of this mile.

Dependent Resurvey and Accretion Survey,
S. Bdy., C. R. I. R., T. 4 N., R. 22 W.

CHAINS	
	West, on the 4th mile along the S. bdy. of the Colorado River Indian Reservation, beginning new measurement. Across irrigated field.
1.77	The closing cor. of secs. 32 and 33, on the S. bdy. of the Colorado River Indian Reservation, hereinafter described.
	Continue across irrigated field.
4.00	Intersect the median line of the abandoned channel of the Colorado River as it existed in 1943, prior to the "Ninth Ave." channelization. A detailed description of the method of determination of the median line is hereinafter described.
	Point for the closing corner.
	Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, below the surface of an irrigated field, with brass cap mkd.

C R I R
T 4 N R 22 W
S 32 CC

1973

Set a steel fence post, 7 ft. long alongside the iron post.

Land, level river bottom farm land.
Soil, sandy loam.
No timber or undergrowth.

Dependent Resurvey of a Portion of the Subdivisional Lines, and Survey of a Portion of the Lands Accreted to the Colorado River Indian Reservation, T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona

(Restoring the 1912 survey by Guy P. Harrington)

From the cor. of secs. 26, 27, 34, and 35, perpetuated in 1962 by Leonard Murphy who recovered the remains of the original iron post, with an iron post, 2½ ins. diam., protruding 4 ins. above the ground, firmly set, in concrete, and in a mound of stone, 2½ ft. base, to top, alongside of which is a redwood post, 4 ins. sq., protruding 42 ins. above the ground, with brass cap mkd.

T 4 N R 22 W

S 27	S 26
S 34	S 35

1962

Add the marks 1973 to the brass cap.

From this point an iron pipe, 2 ins. diam., firmly set, protruding 20 ins. above the ground, of which I have no record, bears S. 69° W., 0.133 chs. dist., with pipe cap mkd. G.

This corner is located at the intersection of dirt roads, 20 lks. wide, which bear N. and S., and E. and W.

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Dependent Resurvey, Portion of the Subdivisional Lines,
and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS	
	S. 0° 02' E., bet. secs. 34 and 35.
	Over nearly level river bottom land, along a dirt road, 20 lks. wide, bears N. and S.
40.01	The ¼ sec. cor. of secs. 34 and 35, perpetuated in 1962 by Leonard Murphy who recovered the remains of the original iron post, with an iron post, 2½ ins. diam., protruding 4 ins. above the ground, firmly set, in concrete, and in a mound of stone, 3 ft. base, to top, alongside of which is a redwood post, 4 ins. sq., protruding 42 ins. above the ground, with brass cap mkd. T 4 N R 22 W ¼ S 34 | S 35 1962 Add the marks 1973 to the brass cap. The corner is located on the W. edge of a dirt road, 20 lks. wide, bears N. and S.
	S. 0° 01' E., beginning new measurement. Over nearly level river bottom land, along a dirt road, 20 lks. wide, bears N. and S.
26.00	Graveled road, 20 lks. wide, bears E. and W.; enter dense undergrowth.
26.495	The original closing cor. of secs. 34 and 35, set by G. P. Harrington in 1912, monumented with a deteriorated iron post, 2 ins. diam., firmly set in concrete, 2 ins. below the surface of the ground, with brass cap mkd. C C C R I R T 4 N | R 22 W S 34 | S 35 1912 Add the marks AM 1973 to the brass cap and pour new concrete around the iron post.
26.515	Intersect the S. bdy. of the Colorado River Indian Reservation. True point for the closing cor. of secs. 34 and 35. Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. C C C R I R T 4 N | R 22 W S 34 | S 35 1973 Set a steel fence post, 7 ft. long, alongside the iron post. This cor. is located 3 lks. S. of a barbed wire fence, 4 strands, bearing E. and W.; and 20 lks. N. of an irrigation canal 15 lks. wide, 3½ ft. deep, bearing E. and W.

Dependent Resurvey, Portion of the Subdivisional Lines, and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS	
	From this point, the 1 Mile Post on the S. bdy. of the Colorado River Indian Reservation, bears S. 89° 47' E., 1.80 chs. dist., hereinbefore described. Land, level river bottom. Soil, sandy loam. No timber; undergrowth, mesquite, arrowweed and willow.
	From the cor. of secs. 26, 27, 34, and 35. West, on record bearing, bet. secs. 27 and 34. Over nearly level river bottom land, along an abandoned dirt road, 20 lks. wide, bears E. and W.
39.60	Graveled road, 25 lks. wide, bears N. and S.
40.00	The ¼ sec. cor. of secs. 27 and 34, re-established in 1962 by Leonard Murphy at record bearing and distance; there is no remaining evidence of the original corner, monumented with an iron post, 2½ ins. diam., protruding 4 ins. above the ground, firmly set, in concrete, and in a mound of stone, 2 ft. base, to top, alongside of which is a redwood post, 4 ins. sq., protruding 42 ins. above the ground, with brass cap mkd. T 4 N R 22 W ¼ S 27 / S 34 1962 Add the marks 1973 to the brass cap. Continue across nearly level river bottom land, through dense undergrowth.
47.40	Point for the meander cor. of secs. 27 and 34, at record bearing and distance; there is no remaining evidence of the original corner. No monument established. Continue with the same line and measurement, over accreted lands, through dense undergrowth.
80.00	The cor. of secs. 27, 28, 33, and 34, established in 1962 by Leonard Murphy, monumented with an iron post, 2½ ins. diam., protruding 4 ins. above the ground, firmly set, in concrete, and in a mound of stone, 2 ft. base, to top, alongside is a redwood post, 4 ins. sq., protruding 42 ins. above the ground, with brass cap mkd. T 4 N R 22 W S 28 | S 27 S 33 | S 34 1962 Add the marks 1973 to the brass cap. Land, level river bottom. Soil, sandy loam. No timber; undergrowth, mesquite, arrowweed and salt cedar.

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Dependent Resurvey, Portion of the Subdivisional Lines and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS	
	S. 0° 02' E., bet. secs. 33 and 34.
	Over nearly level river bottom land, through dense undergrowth.
30.70	The left bank of the Colorado River, bears N. 43° W. and S. 36° E.; river, course S. 36° E.; point selected for a witness point.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.
	W P T 4 N R 22 W S 33 | S 34 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence across the Colorado River.
40.00	Point for the ¼ sec. cor. of secs. 33 and 34, falls in the Colorado River, where it is impracticable to establish a permanent monument.
46.70	The right bank of the Colorado River, bears N. 31° W. and S. 24½° E.; point selected for a witness point.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.
	W P T 4 N R 22 W S 33 | S 34 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	Continue over level river bottom land, through dense undergrowth.
66.52	The closing cor. of secs. 33 and 34, on the S. bdy. of the Colorado River Indian Reservation, established in 1962 by Leonard Murphy, monumented with an iron post, 2½ ins. diam., protruding 4 ins. above the ground, firmly set, in concrete, alongside is a redwood post, 4 ins. sq., protruding 42 ins. above the ground, with brass cap mkd.
	C C C R | I R T 4 N | R 22 W S 33 | S 34 1962
	Add the marks 1973 to the brass cap.
	From this point the 2 Mile Post, on the S. bdy. of the Colorado River Indian Reservation, bears East, 1.77 chs. dist., hereinbefore described.
	Land, level river bottom. Soil, sandy loam. No timber; undergrowth, mesquite, arrowweed, salt cedar, reeds and willow.

Dependent Resurvey, Portion of the Subdivisional Lines and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS	
	To complete the survey of that portion of sec. 34, within the Colorado River Indian Reservation, I return to the 1½ Mile Post, on the S. bdy. of the reservation.
	West, on the S. bdy. of the Colorado Indian Reservation, through dense undergrowth.
1.785	Point for the ¼ sec. cor. of that portion of sec. 34, within the reservation, at mid-point longitudinally, bet. the closing cor. of secs. 33 and 34 and the closing cor. of secs. 34 and 35.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. C R I R T 4 N R 22 W ¼ S 34 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	The corner is located 17 lks. N. of a concrete irrigation canal, 13 lks. wide, 3½ ft. deep, bearing E. and W., and 100 lks. S. of a graveled road, 20 lks. wide, bearing E. and W.
	From the cor. of secs. 27, 28, 33, and 34.
	West, bet. secs. 28 and 33, over accreted lands.
	Across nearly level river bottom land, through dense undergrowth.
4.50	E. bank of slough, 2 chs. wide, drains S. 30° W.
	Thence across slough.
6.50	W. bank of slough; enter dense undergrowth.
13.50	Point for the meander cor. of secs. 28 and 33, on the left bank of the Colorado River, bears N. 2° W. and S. 2° E.; river, course S. 2° E.
	Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd. T 4 N R 22 W M C | S 28 | S 33 1973
	Set a steel fence post, 7 ft. long, alongside the iron post.
	From this point the cor. of secs. 11, 12, 13, and 14, T. 6 S., R. 23 E., San Bernardino Meridian, California, bears N. 20° 33' W., 66.63 chs. dist., perpetuated by Rodger F. Wilson, Cadastral Surveyor, in 1958, with an iron post, 2½ ins. diam., firmly set, protruding 4 ins. above the ground, with brass cap mkd.

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Dependent Resurvey, Portion of the Subdivisional Lines and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS

T 6 S R 23 E

S 11	S 12
S 14	S 13

1958

from which accessories described by Wilson

A nail in cruiser tag on NE. side of power pole No. 3669661, bears N. 37° W., 24.7 lks. dist., set over old shiner on pole.

Northwest cor. of a stucco house, bears S. 51° 37' E., 201 lks. dist.

Set a steel fence post, 7 ft. long, alongside the iron post.

From this same point the cor. of secs. 13, 14, 23, and 24, T. 6 S., R. 23 E., San Bernardino Meridian, California, bears S. 50° 42' W., 28.51 chs. dist., re-established by A. C. Keith, Riverside County Surveyor, in 1961, at record distance from the west, and proportionate distance in latitude, between corners to the north and south, monumented with an iron pipe, 1½ ins. diam., firmly set, 18 ins. below the surface of the ground, with copper tag mkd. COUNTY SURVEYOR 13 14 23 24 and a + ; the iron pipe is surrounded by a tractor tire, 5 ft. diam., with a steel grader blade, 3/4 in. thick, 6 ins. wide, protruding 36 ins. above the ground, firmly set, alongside the iron pipe, as a guard stake.

From this same point on a line extended West, the right bank of the Colorado River is 14.20 chs. dist.

Land, level river bottom.
Soil, sandy silt and sand.
No timber; undergrowth, mesquite, arrowweed, salt cedar, reeds, and Willow.

From the cor. of fractional secs. 32 and 33, determined at a point on the median line of the abandoned 1943 channel of the Colorado River and 80.00 chs. longitudinally from the sec. cor. of secs. 27, 28, 33, and 34.

Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, below the surface of an irrigated field, with brass cap mkd.

T 4 N R 22 W

S 32	S 33

1973

Set a steel fence post, 7 ft. long, alongside the iron post.

From this point, angle point No. 1 on the median line of the abandoned 1943 channel, bears S. 35° 14' W., 1.66 chs. dist., hereinafter described.

S. 0° 03' E., bet. secs. 32 and 33.

Over level bottom land, through an irrigated field.

Dependent Resurvey, Portion of the Subdivisional Lines and Survey of Accreted Lands, T. 4 N., R. 22 W.

CHAINS	
3.445	Intersect the S. bdy. of the Colorado River Indian Reservation. Point for the closing cor. of secs. 32 and 33. Set an iron post, 28 ins. long, 2½ ins. diam., 42 ins. in the ground, below the surface of an irrigated field, with brass cap mkd. C C C R | I R T 4 N | R 22 W S 32 | S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post. From this point, the 3 Mile Post, on the S. bdy. of the Colorado River Indian Reservation, bears East, 1.77 chs. dist., hereinbefore described. Land, irrigated river bottom. Soil, sandy silt. No timber or undergrowth.
	To establish the ¼ sec. cor. of sec. 33 only, on the S. bdy. of the Colorado River Indian Reservation, I return to the 2½ Mile Post on the S. bdy. of the reservation. West, on the S. bdy. of the reservation.
1.77	Point for the ¼ sec. cor. of sec. 33 only, on the S. bdy. of the reservation, at mid-point bet. the closing cor. of secs. 32 and 33 and the closing cor. of secs. 33 and 34. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. C R I R T 4 N R 22 W ¼ S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W. Between the time of the original survey of fractional sec. 34, within the Colorado River Indian Reservation, and 1943, an area of accreted lands, forming a hair-pin-like loop, had been added to fractional sec. 34. From July 20 to October 13, 1943, a cut, known as the "Ninth Ave. Cut", was dredged at the base of the loop, this cut caused the Colorado River to abandon its natural channel and relocate in the man-made cut, which had the effect of isolating

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Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
	considerable land from the reservation which had been previously added by accretion. Within the established principles, of avulsion, it is held that the median line of the abandoned channel became a fixed boundary of the reservation when the "Ninth Ave. Cut" diverted the course of the river. It is also held, that the title to the east half of the abandoned river bed was reserved to the reservation by the Executive Orders establishing the reservation prior to Arizona's admission into the Union. To determine the position of the Colorado River, and its median line prior to the time of the relocation of the channel in 1943, aerial photographs taken by the Bureau of Reclamation on March 27, 1942, were used. These photographs constitute the best available evidence of the position of the river when the 1943 cut was made. Various points on the 1942 photographs, still visible on the ground at the time of this survey, were located and identified. Lines were surveyed between these points so as to give each point a coordinate. From these coordinate positions the scale of the photograph was computed. Using this scale and the Zeiss Planimat first order plotter, the banks of the river were plotted, as they existed in the 1942 photographs. With this information the median line of the now abandoned channel was mathematically computed as a uniquely positioned line, everywhere equi-distant from the closest point on two opposite banks of the river. This computed median line was the actual line surveyed.	
	From the closing cor. on the S. bdy. of the Colorado River Indian Reservation, in fractional sec. 32, at intersection with the median line of the abandoned 1943 channel of the Colorado River, hereinbefore described.	
	Thence with the traverse of the computed position of the 1943 median line of the river, in fractional sec. 32, over level bottom land, through an irrigated field.	
	N. 31° 19' E., 2.44 chs.	At end of this course, Point for angle point No. 1. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 1 T 4 N R 22 W S 32 1973 Set steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 35° 14' E., 4.68 chs.	At 1.66 chs. on this course the cor. of fractional secs. 32 and 33, hereinbefore described. Continue in fractional sec. 33 At end of this course,

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Point for angle point No.2 . Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 2 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 37° 13' E., 0.24 chs.	At the end of this course, Point for angle point No. 3. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 3 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 38° 48' E., 0.62 chs.	At end of this course, Point for angle point No. 4. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 4 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 41° 49' E., 0.61 chs.	At end of this course, Point for angle point No. 5. Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.

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Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		A P - 5 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 43° 25' E., 6.80 chs.	At end of this course,
		Point for angle point No. 6
		Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, below the surface of an irrigated field, with brass cap mkd.
		A P - 6 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 46° 58' E., 1.42 chs.	At end of this course,
		Point for angle point No. 7.
		Set an iron post, 28 ins. long, 2½ ins. diam., 46 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 7 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 54° 06' E., 1.49 chs.	At 1.05 chs. on this course, edge of irrigated field, bears S. 80° E. and N. 80° W.
		At 1.35 chs. on this course, a dirt road, 20 lks. wide, bears S. 80° E. and N. 80° W.
		At end of this course,
		Point for angle point No. 8.
		Set an iron post, 28 ins. long, 2½ ins. diam., 27 ins. in the ground, in concrete,

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		on the N. edge of the dirt road, with brass cap mkd. A P - 8 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 57° 36' E., 2.50 chs.	At 0.40 chs. on this course, S. bank of slough, 85 lks. wide, bears N. 80° E. and S. 80° W. At 1.90 chs. on this course, N. bank of slough, bears N. 80° E. and S. 80° W. At end of this course, Point for angle point No. 9. Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, on the S. edge of an irrigated field, bearing N. 80° E. and S. 80° W., with brass cap mkd. A P - 9 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 79° 36' E., 8.01 chs.	At end of this course, Point for angle point No. 10. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 10 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 88° 12' E., 4.95 chs.	At the end of this course,

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Point for angle point No. 11. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 11 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	S. 85° 47' E., 1.80 chs.	At the end of this course, Point for angle point No. 12. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 12 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	S. 73° 23' E., 1.73 chs.	At the end of this course, Point for angle point No. 13. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 13 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	S. 67° 16' E., 5.09 chs.	At end of this course, Point for angle point No. 14. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		A P - 14 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	S. 85° 20' E., 1.38 chs.	At the end of this course, Point for angle point No. 15. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 15 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	S. 87° 35' E., 0.73 chs.	At the end of this course, Point for angle point No. 16. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 16 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 87° 52' E., 0.72 chs.	At the end of this course, Point for angle point No. 17. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 17 T 4 N R 22 W S 33 1973

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Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 85° 35' E., 8.75 chs.	At 8.20 chs. on this course, a graveled road, 20 lks. wide, bears N. and S.
		At 8.35 chs. on this course, the W. bank of an irrigation canal, 45 lks. wide, 10 ft. deep, bears N. and S.
		At the end of this course,
		Point for angle point No. 18.
		Set an iron post, 28 ins. long, 2½ ins. diam., 28 ins. in the ground, in concrete, on W. side of the E. bank of the irrigation canal, with brass cap mkd.
		A P - 18 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 82° 45' E., 0.89 chs.	At 0.10 chs. on this course, the E. bank of the irrigation canal, bears N. and S.
		At 0.20 chs. on this course, a dirt road, 20 lks. wide, bears N. and S.
		At the end of this course,
		Point for angle point No. 19.
		Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, in concrete, on the W. edge of an irrigated field, bearing N. and S., with brass cap mkd.
		A P - 19 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 77° 04' E., 0.91 chs.	At the end of this course.

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Point for angle point No. 20.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 20 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 74° 16' E., 2.01 chs.	At the end of this course,
		Point for angle point No. 21.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 21 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 64° 55' E., 8.98 chs.	At the end of this course,
		Point for angle point No. 22.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 22 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 71° 20' E., 0.65 chs.	At the end of this course,
		Point for angle point No. 23.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated

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Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		field, with brass cap mkd. A P - 23 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 74° 19' E., 1.08 chs.	At the end of this course, Point for angle point No. 24. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 24 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 80° 19' E., 1.09 chs.	At the end of this course, Point for angle point No. 25. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 25 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 83° 17' E., 2.27 chs.	At the end of this course, Point for angle point No. 26, Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		A P - 26 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 81° 42' E., 0.63 chs.	At the end of this course, Point for angle point No. 27. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 27 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 55° 07' E., 1.22 chs.	At the end of this course, Point for angle point No. 28. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 28 T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 53° 33' E., 5.79 chs.	At the end of this course, Point for angle point No. 29. Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd. A P - 29 T 4 N R 22 W S 33 1973

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 47° 59° E., 3.17 chs.	At the end of this course,
		Point for angle point No. 30.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 30 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 46° 33' E., 0.50 chs.	At the end of this course,
		Point for angle point No. 31.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 31 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 43° 41' E., 0.50 chs.	At the end of this course,
		Point for angle point No. 32.
		Set an iron post, 28 ins. long, 2½ ins. diam., 48 ins. in the ground, beneath the surface of an irrigated field, with brass cap mkd.
		A P - 32 T 4 N R 22 W S 33 1973
		Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 42° 15' E., 1.87 chs.	At the end of this course,

Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS		
		Point for angle point No. 33. Set an iron post, 28 ins. long, 2½ ins. diam., 26 ins. in the ground, in concrete, on the edge of an irrigated field, bearing N. 55° W. and S. 55° E., with brass cap mkd. A P - 33 T 4 N S 33 S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post.
	Thence	
	N. 39° 26' E., 7.77 chs.	At 0.40 chs. on this course, a dirt road, 15 lks. wide, bears N. 55° W. and S. 55° E. At 0.90 chs. on this course, the present right bank of the Colorado River, bears N. 53° 57' W. and S. 53° 57' E. Point selected for a witness point. Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the riprap, in concrete, with brass cap mkd. W P T 4 N R 22 W S 33 1973 Set a steel fence post, 7 ft. long, alongside the iron post. From this point, the witness point bet. secs. 33 and 34, on the right bank of the Colorado River, bears S. 38° 48' E., 12.41 chs. dist., hereinbefore described. At the end of this course, Point for angle point No. 34, falls in the Colorado River, where it is impracticable to establish a permanent monument.
	Thence	
	N. 44° 24' E., 3.20 chs.	Intersect the present left bank of the Colorado River. Point for the auxiliary meander corner on the left bank of

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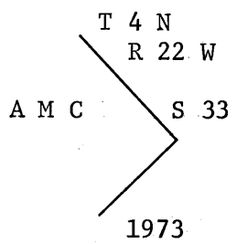
Survey of the Median Line of the Abandoned Channel of Colorado River, T. 4 N., R. 22 W.

CHAINS

the Colorado River, in sec. 33.

Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, in concrete, with brass cap mkd.



Set a steel fence post, 7 ft. long, alongside the iron post.

The survey of the median line of the abandoned channel of the Colorado River, is terminated at this point.

From this point, the witness point bet. secs. 33 and 34, on the left bank of the Colorado River, bears S. 42° 48' E., 1.72 chs. dist., hereinbefore described.

Meander of the Present Left Bank of the Colorado River through sec. 33, T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona

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The following notes are those of the meanders of the present left bank of the Colorado River.

From the meander cor. of secs. 28 and 33, T. 4 N., R. 22 W., hereinbefore described.

Thence with the meanders of the left bank of the Colorado River, in sec. 33.

Over level land, through dense undergrowth.

S. 2° 30' E., 6.40 chs.

S. 32° 15' E., 8.80 chs.

At 2.90 chs. on this course, right bank of slough and overflow area, 1.70 chs. wide, drains S. 10° W.

At 4.60 chs., on this course, left bank of slough and overflow area.

S. 50° 15' E., 3.80 chs.

S. 16° 15' E., 12.70 chs.

Meander of the Present Left Bank of the Colorado River through secs. 33 and 34, T. 4 N., R. 22 W.

CHAINS		
	S. 42° 48' E., 1.35 chs.	The auxiliary meander cor. on the left bank of the Colorado River and on the median line of the abandoned channel, in sec. 33, hereinbefore described.

Informative Traverse of the Present Right and Left Banks of the Colorado River, in Sections 33 and 34, T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona, California

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The following is an informative traverse of the present left bank of the Colorado River, through secs. 33 and 34.

From the auxiliary meander corner on the left bank of the Colorado River.

Thence in sec. 33, over level land, through dense undergrowth.

S. 42° 48' E., 1.72 chs.	At the end of this course, the witness point, bet. secs. 33 and 34 on the left bank of the Colorado River, hereinbefore described.

Thence in sec. 34.

S. 35° 53' E., 1.52 chs.	
S. 53° 34' E., 2.92 chs.	
S. 62° 29' E., 8.55 chs.	
S. 81° 09' E., 7.74 chs.	
S. 22° 00' E., 3.10 chs.	
S. 36° 17' E., 7.75 chs.	
S. 27° 24' E., 3.54 chs.	
S. 36° 03' E., 8.95 chs.	
S. 27° 31' E., 4.82 chs.	
S. 10° 30' E., 4.02 chs.	At the end of this course, the witness point on the S. bdy. of the Colorado River Indian Reservation, hereinbefore described.

The following notes are those of an informative traverse of the present right bank of the Colorado River.

From a point on the right bank of the Colorado River which is West, 14.20 chs. dist. from the new left bank meander cor. of secs. 28 and 33, T. 4 N., R. 22 W., hereinbefore described.

Thence with an informative traverse of the right bank of the Colorado River.

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Informative Traverse of the Present Banks of the Colorado River, in Secs. 33 and 34, T. 4 N., R. 22 W.

CHAINS			
	Over level land, through patches of undergrowth.		
	S. 1° 35' W.,	4.85 chs.	
	S. 5° 29' E.,	4.88 chs.	
	S. 21° 30' E.,	8.21 chs.	
	S. 22° 27' E.,	9.86 chs.	
	S. 44° 04' E.,	7.45 chs.	
	S. 57° 16' E.,	4.90 chs.	
	S. 53° 57' E.,	5.85 chs.	At 4.39 chs. on this course, intersect the median line of the abandoned channel of the Colorado River, at the witness point, hereinbefore described.
	Thence in sec. 33.		
	S. 45° 11' E.,	3.79 chs.	
	S. 34° 08' E.,	3.73 chs.	
	S. 30° 44' E.,	3.55 chs.	To the witness point bet. secs. 33 and 34, as hereinbefore described.
	Thence in sec. 34.		
	Over level land, through dense undergrowth.		
	S. 24° 22' E.,	8.52 chs.	
	S. 34° 38' E.,	3.68 chs.	
	S. 36° 33' E.,	3.12 chs.	
	S. 39° 23' E.,	4.80 chs.	
	S. 16° 50' E.,	2.95 chs.	To the witness point on the S. bdy. of the Colorado River Indian Reservation, as hereinbefore described.

GENERAL DESCRIPTION

The lands included in the foregoing survey are divided by the Colorado River. The lands on the west or California side, are situated about 3 miles northeasterly of the town of Blyth, in Riverside County, California. Access to this portion is by way of U. S. Highway No. 95, and 10th Avenue road, branching off from it. The lands on the east, or Arizona side, are situated about 2 miles north of the town of Ehrenberg, in Yuma County, Arizona. Access to this portion is by way of the Parker-Ehrenberg Highway, and a gravel road branching off from it. The elevations are nearly constant, ranging from 265 ft. above sea level to 275 ft. above sea level.

Most of the land west of the river have been cleared and leveled for irrigation, except for a portion of the old river bed, which is presently being used for an irrigation drain ditch. An irrigation canal has been brought

T. 4 N., R. 22 W., Gila and Salt River Meridian, Arizona

	CHAINS	
		across the old river bed, on a raised fill, to furnish water to the area. The soil in this area is a deep sandy loam with high alkaline content. A portion of the right bank of the Colorado River has been riprapped in recent years, to prevent any further erosion. The land east of the river is level bottom land, covered by a heavy growth of large mesquite, and some willow, with a dense growth of arrowweed and salt cedar in those parts not covered by mesquite. The section lines were bulldozed out during the course of the 1962 surveys, but were badly overgrown in places at the time of this survey. There is no present use or occupancy of these lands, except for some cattle grazing. The soil of this area is a deep sandy loam, of high alkaline content. A portion of the left bank of the Colorado River has also been riprapped in recent years to prevent any further erosion. No evidence of mineral deposits was noted in the area covered by the survey. The average of a number of readings along the lines surveyed gives a value of 14° 00' East for the mean magnetic declination. There is a range of 0° 30' in local attraction.

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Form 9180–8
(March 1969)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Michael L. Blackwell	Surveying Aid
Harry Laffoon	BIA Assistant
Herman Laffoon	BIA Assistant

CERTIFICATE OF SURVEY

(We), William W. Finnicum and Donevan C. Harris , HEREBY CERTIFY upon honor that, in pursuance of special instructions bearing date of the 1st day of December , 19 61 , (We) have dependently resurveyed a portion of the south boundary of the Colorado River Indian Reservation, a portion of the subdivisional lines, and surveyed accreted lands in township 4 north, range 22 west,

of the Gila and Salt River Meridian, in the State of Arizona and California , which are represented in the foregoing field notes as having been executed by (me), (us) and under (my) (our) direction; and that said survey has been made in strict conformity with said special instructions, the Manual of Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

February 27, 1973 (Date) — William W. Finnicum (Cadastral Surveyor)

February 27, 1973 (Date) — Donevan C. Harris (Cadastral Surveyor)

CERTIFICATE OF APPROVAL

SUBMITTED FOR APPROVAL
Date MAR 15 1973

BUREAU OF LAND MANAGEMENT
Washington, D.C.

The foregoing field notes of the dependent resurvey of a portion of the south boundary of the Colorado River Indian Reservation, a portion of the subdivisional lines, and the survey of accreted lands in township 4 north, range 22 west, of the Gila and Salt River Meridian, Arizona and California, executed by William W. Finnicum and Donevan C. Harris, Cadastral Surveyors, having been critically examined and found correct, are hereby approved.

MAR 20 1973 (Date) — Clark F. Gunn (Chief, Division of Cadastral Survey)

~~CERTIFICATE OF TRANSCRIPT~~

I CERTIFY That the ~~foregoing~~ transcript of the field notes of the above-described surveys in T. 4 N., R. 22 W., Gila and ~~Salt River~~ Meridian, Arizona and California, is a true copy of the original field notes.

(Date) — (Chief, Division of Cadastral Survey)

GPO 849-626