

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

①

FIELD NOTES

OF THE

SURVEYS OF A PORTION OF THE YUMA INDIAN RESERVATION

CONSISTING OF

THE DEPENDENT RESURVEY OF A PORTION OF THE WEST BOUNDARY,

SUBDIVISIONAL LINES, MEANDER LINES AND THE ACCRETION SURVEY OF SECTION 30

TOWNSHIP 15 SOUTH, RANGE 24 EAST

THE EXTENSION SURVEYS AND ACCRETION SURVEYS

OF

SECTIONS 25, 35 AND 36, TOWNSHIP 15 SOUTH, RANGE 23 EAST;

SURVEY OF THE 1902-03 RIGHT BANK OF THE ABANDONED CHANNEL OF THE COLORADO RIVER

AND

INFORMATIVE TRAVERSE OF THE PRESENT BANKS OF THE COLORADO RIVER

TOWNSHIPS 15 SOUTH, RANGES 23 AND 24 EAST

Of the SAN BERNARDINO Meridian,

In the State of CALIFORNIA

EXECUTED BY

Jack W. Rabadew, Supervisory Cadastral Surveyor

Under special instructions dated October 15, 19 79, approved October 15, 1979,
and October 22, 1979

_____, which provided for the surveys included under D/S/Survey/Group
Group 614 Arizona,
Number 747 California /, and assignment instructions dated September 28, 1979.

Survey commenced October 9, 19 79

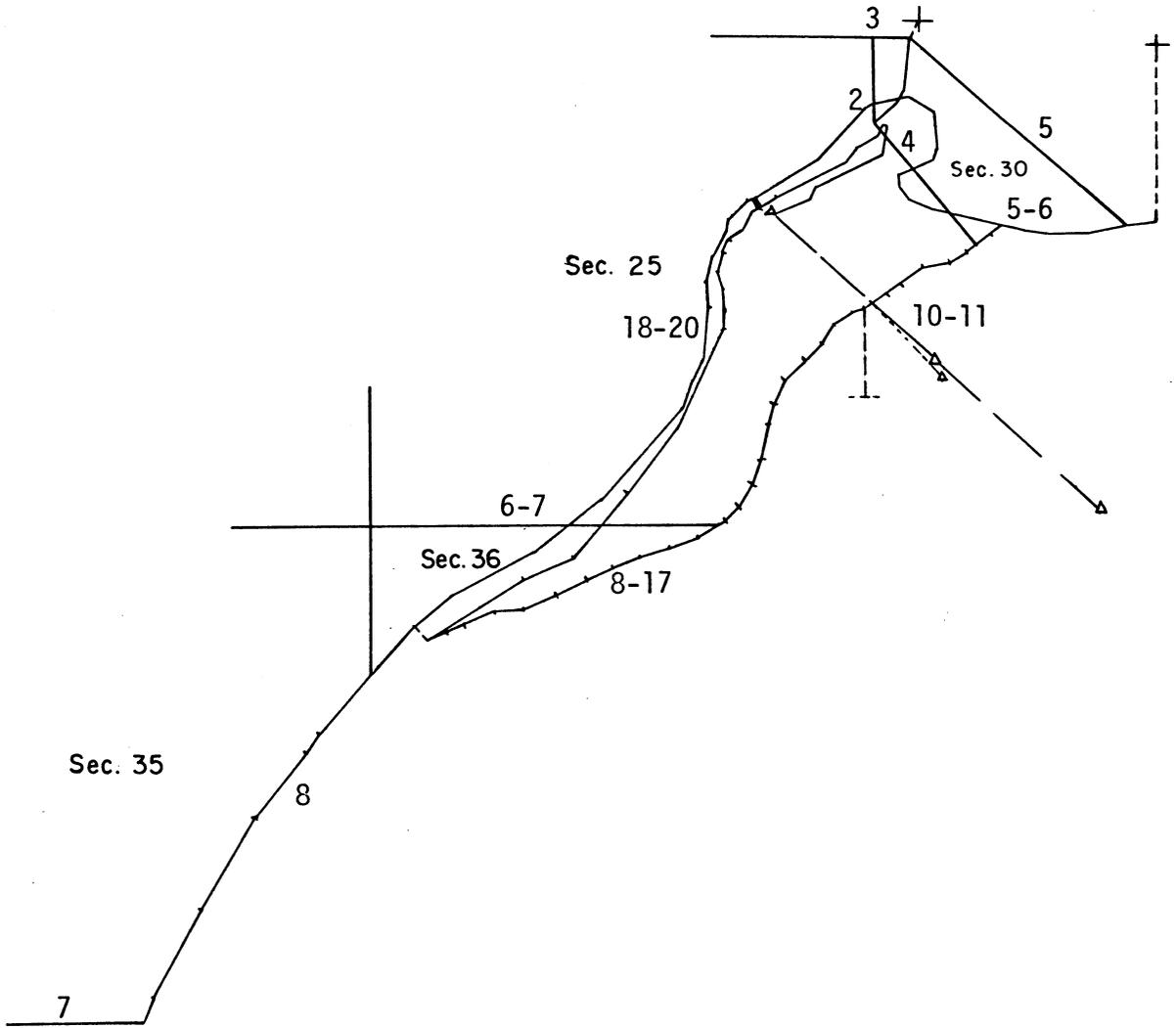
Survey completed November 30, 19 79

INDEX DIAGRAM

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INDEX DIAGRAM



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SURVEY OF A PORTION OF THE YUMA INDIAN RESERVATION
TPS. 15 S., RS. 23 AND 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS

The following field notes are those of the dependent resurvey of a portion of the west boundary, subdivisional lines, meander lines and accretion survey of section 30, T. 15 S., R. 24 E.; the survey of new meander lines; the extension survey of a portion of the subdivisional lines and accretion surveys of sections 25, 35 and 36, T. 15 S., R. 23 E., together with the survey of the fixed and limiting boundary of the 1902-03 right bank of the abandoned channel of the Colorado River, along the ordinary low water line, and the informative traverse of a portion of the present banks of the Colorado River, Tps. 15 S., Rs. 23 and 24 E., San Bernardino Meridian, California, all within the Yuma Indian Reservation.

History of Surveys:

- 1856 - John La Croze surveyed a portion of the south bdy., subdivisional lines and meanders of the Colorado River of fractional T. 15 S., R. 23 E.
- 1879 - W. F. Benson surveyed the west bdy., subdivisional lines and meanders of the Colorado River of fractional T. 15 S., R. 24 E.
- 1895 - F. S. Ingalls surveyed the Yuma Indian Reservation and meanders of the Colorado River along the E and S bdrs. of the Reservation.
- 1908 - R. M. Priest resurveyed and subdivided secs. 33, 34 and 35, and resurveyed a portion of the meanders of the Colorado River in T. 15 S., R. 23 E.
- 1957 - E. Pearson resurveyed a portion of the range line of Tps. 15 S., Rs. 23 and 24 E.
- 1960-61 - Wm. W. Glenn resurveyed a portion of the range line of Tps. 15 S., Rs. 23 and 24 E., and resurveyed secs. 25, 35 and 36, T. 15 S., R. 23 E. and resurveyed the meanders of the right bank of the Colorado River in Tps. 15 S., Rs. 23 and 24 E.
- 1977 - W. S. Ross resurveyed a portion of the subdivisional lines of T. 15 S., R. 23 E.

These surveys were executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 747, California and Group No. 614, Arizona, dated October 15, 1979.

The direction of the lines were determined by occupying U.S.C. & G.S. Triangulation Station "LAGUNA", located on Laguna Dam, and sighting the azimuth mark, N. 81°54'10" W., approximately ½ mile distance from the station, near the west end of Laguna Dam. The station was found to be as published by the U. S. Coast and Geodetic Survey, with reference monuments 1 and 2, the azimuth mark and station in good condition. The published geographic coordinates of "LAGUNA" are:

Latitude 32°49'22.58936" Longitude 114°29'34.58030"

SURVEY OF A PORTION OF THE YUMA INDIAN RESERVATION,
TPS. 15 S., RS. 23 AND 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS

The lines were carried forward by means of fore- and backsights and angular deflections from the azimuth mark. The vertical angles of the electronic measurements of distances were ascertained with a theodolite and only the horizontal distances are entered in the field notes.

In executing these surveys, corner monuments of previous surveys were identified by retracements and found to be in accordance with the prior surveys, with new corner monuments being established and based upon the previous surveys and that certain map entitled "Plan and Profile of Colorado River from Black Canyon, Arizona-Nevada to Arizona-Sonora Boundary, Sheet P", surveyed by the U. S. Geological Survey in 1902-03, for the determination of the right bank, at the ordinary low water line, of the abandoned 1902-03 Colorado River channel, north and south of Laguna Dam.

The geographic position of the meander corner of sections 2 and 35, Tps. 15 and 16 S., Rs. 23 E., as determined by traverse lines from U. S. C. & G.S. Triangulation Station "LAGUNA" is:

Latitude 32°48'14.7" N. Longitude 114°31'12.2" W.

The mean observed magnetic declination is 14° E.

DEPENDENT RESURVEY AND ACCRETION SURVEY, SECTION 30,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

Reestablishment of the Survey Executed by
Frank S. Ingalls in 1895 and Resurveyed in Part by
William W. Glenn in 1960-61

Note:

The plat of T. 15 S., R. 24 E., SBM, California, dated October 5, 1961, was suspended by Director's Memorandum, dated October 31, 1979, to allow for the survey of lands within the Yuma Indian Reservation. Portions of suspended section 31, as hereinafter described, are now redesignated section 30, T. 15 S., R. 24 E., SBM, to conform with the Yuma Indian Reservation plat approved August 17, 1896, and in compliance with Secretarial Decision dated December 20, 1978.

Beginning at the true point for the cor. of secs. 19, 24, 25 and 30, on the W bdy. of the Tp., originally established by F. S. Ingalls in 1895 and perpetuated by W. W. Glenn in 1961, as the NE cor. of sec. 25, T. 15 S., R. 23 E., only. This cor. point now refers to secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E. only, point falls in the All American Canal, not monumented.

South, on the W bdy. of the Tp. bet. secs. 25 and 30.

2.07 Left bank, All American Canal, bears E and W.

2.22 The 1961 witness cor. to the NE cor. of sec. 25, T. 15 S., R. 23 E. only, an iron post, 2½ ins. diam., firmly set and protruding 4 ins. above a concrete base. This witness cor. additionally refers to sec. 30, T. 15 S., R. 24 E. Alter marks on brass cap to read:

DEPENDENT RESURVEY AND ACCRETION SURVEY, SECTION 30,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS	
	<p style="text-align: center;"> WC T15S ↑ R23E R24E S25 S30 YIR 1979 1961 </p> <p>Set a 6 ft. fiberglass fence post, 2 ft. in the ground, 3 lks. S of iron post, with a poster attached reading "Yuma Indian Reservation Boundary".</p>
10.59	<p>The 1961 meander cor. of secs. 25 and 31, Tps. 15 S., Rs. 23 and 24 E., an iron post, 2½ ins. diam., firmly set, projecting 4 ins. above a concrete base, on the present right bank of the Colorado River, bears N. 78°05' E. and S. 65°15' W. This cor. now becomes the witness cor. meander cor. to secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E. Alter marks on brass cap to read:</p>
	<p style="text-align: center;"> T15S R23E R24E S25 S30 ↓ WC MC YIR 1979 1961 </p>
13.64	<p>True point for the Ingalls 1895 meander cor. of fractional secs. 25 and 30, at record bearing and dist.; there is no remaining evidence of the original cor., falls in present channel of the Colorado River, course SW, not monumented.</p>
	<p style="text-align: center;">_____</p> <p>From the true point for the cor. of secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E., hereinbefore described.</p> <p>East, bet. secs. 30 and 31, along the N bdy. of the Yuma Indian Reservation, upstream in the All American Canal.</p>
4.06	<p>Left bank, All American Canal, bears N. 53° E. and S. 53° W., thence in a curve to the W.</p>
5.40	<p>Center of canal road, surfaced, 40 lks. wide, bears N. 53° E. and S. 53° W.</p>
5.68	<p>Point for the Ingalls meander cor. of fractional secs. 19 and 30, at record bearing and dist., on the N bdy. of the Yuma Indian Reservation, there is no remaining evidence of the original cor. This cor. now becomes the meander cor. of fractional secs. 30 and 31.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a mound of stone, 2½ ft. base, to top, with brass cap mkd.</p>
	<p style="text-align: center;"> T15S R24E S31 MC S30 YIR 1979 </p>

DEPENDENT RESURVEY AND ACCRETION SURVEY, SECTION 30,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS	
	<p>From this point the witness cor. for the $\frac{1}{4}$ sec. cor. of secs. 30 and 31, T. 15 S., R. 24 E., bears N. $33^{\circ}38'$ E., 2.58 chs. dist., monumented with a $2\frac{1}{2}$ in. diam. iron post, firmly set in concrete base, with brass cap mkd. as described in the 1960-61 resurvey record.</p> <p>Set a 6 ft. fiberglass fence post, 2 ft. in the ground, 4 lks. S of iron post, with poster attached reading "Yuma Indian Reservation Boundary".</p>
	<p>SURVEY OF THE PARTITION LINES OF SECTION 30, T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA</p>
	<p>From the true point for the meander cor. of fractional secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E., hereinbefore described.</p> <p>S. $39^{\circ}30'$ E., in Colorado River channel, course S. 40° W., normal to the bank of the 1902-03 abandoned Colorado River channel, on the partition line, over accreted land, between secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E.</p>
1.29	Left bank, Colorado River channel, on W side of an isthmus of land, bears N. $22^{\circ}49'$ E. and S. $22^{\circ}49'$ W.
2.55	Left bank, Colorado River channel, on E side of same isthmus, bears N. $9^{\circ}44'$ E. and S. $9^{\circ}44'$ W.; continue over river channel, course NE.
9.795	Intersect the 1960-61 meanders of secs. 25 and 30, bears N. $67^{\circ}45'$ E. and S. $67^{\circ}45'$ W.; continue over upland.
19.165	Intersect the same meanders, bears S. $78^{\circ}15'$ E. and N. $78^{\circ}15'$ W.
	<p>Point selected for the witness cor. meander cor. of secs. 25 and 30, and, the witness cor. for Angle Point No. 3 hereinafter described.</p> <p>Set an iron post, 28 ins. long, $2\frac{1}{2}$ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>The diagram shows a point labeled 'WC' (Witness Corner) at the top. A line labeled 'YIR' (Yuma Indian Reservation) extends from WC down to a point labeled 'MC' (Meander Corner). The line 'YIR' is labeled with 'T15S' and 'R24E'. The line 'MC' is labeled with 'S30'. Below 'MC', there is a line labeled 'AP3 1979'. To the left of 'MC', there are labels 'R23E' and 'S25'.</p> </div>
25.30	<p>Continue over Colorado River channel course N. 75° W.</p> <p>True point for the meander cor. of secs. 25 and 30, and Angle Point No. 3 of the right bank of the 1902-03 abandoned Colorado River channel, bears N. $50^{\circ}30'$ E. and S. $50^{\circ}30'$ W., falls in channel of Colorado River, not monumented.</p>
	<p>From the meander cor. of fractional secs. 30 and 31, on the N bdy., Yuma Indian Reservation, hereinbefore described.</p> <p>S. $48^{\circ}04'$ E., on the partition line, bet. secs. 30 and 31, T. 15 S., R. 24 E., over accreted land.</p>

SURVEY OF THE PARTITION LINES OF SECTION 30,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS
46.05

Point for the meander cor. of secs. 30 and 31, at intersection with the 1960-61 adjusted meanders of the right bank of the Colorado River.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.

T15S R24E
YIR \ S31
S30 /
MC
1979

DEPENDENT RESURVEY OF THE 1960-61 MEANDERS OF SECTION 31,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

Reestablishment of the Survey Executed By
W. W. Glenn in 1960-61

Note:

Portions of sec. 31, T. 15 S., R. 24 E., as hereinafter described are now redesignated section 25, T. 15 S., R. 23 E., and section 30, T. 15 S., R. 24 E.

From the point for the meander cor. of secs. 31 and 32, T. 15 S., R. 24 E., determined at record bearing and dist., South 32.46 chs., from the sec. cor. of secs. 29, 30, 31 and 32, T. 15 S., R. 24 E., there is no remaining evidence of the original cor. Corner point not remonumented.

Thence downstream with the 1960-61 meanders of the right bank of the Colorado River.

S. 83°30' W. 3.90 chs.

S. 80°30' W. 6.40 chs.

At 0.14 chs., intersect the meander cor. of secs. 30 and 31, at the end of the partition line between secs. 30 and 31. Thence continue to end of course now in sec. 30, T. 15 S., R. 24 E.

S. 89°30' W. 5.70 chs.

N. 82°00' W. 5.00 chs.

N. 75°00' W. 5.20 chs.

At 3.43 chs., Angle Point No. 1, 1902-03 abandoned Colorado River channel survey, hereinafter described.

N. 76°45' W. 5.90 chs.

DEPENDENT RESURVEY OF THE 1960-61 MEANDERS OF SECTION 31,
T. 15 S., R. 24 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS	<p>N. 78°15' W. 3.20 chs. At 0.16 chs., intersect the partition line bet. secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E. at the witness cor. meander cor. of secs. 25 and 30, identical with the witness cor. of Angle Point No. 3, 1902-03 abandoned Colorado River channel survey, hereinafter described. Thence continue to end of course in sec. 25, T. 15 S., R. 23 E.</p> <p>N. 65°15' W. 4.00 chs.</p> <p>N. 38°15' W. 2.50 chs.</p> <p>N. 5°45' W. 2.00 chs.</p> <p>N. 67°45' E. 5.90 chs. At 2.59 chs., intersect same partition line and continue to end of course in sec. 30, T. 15 S., R. 24 E.</p> <p>N. 26°15' E. 2.00 chs.</p> <p>N. 5°45' W. 6.50 chs.</p> <p>N. 58°15' W. 4.40 chs.</p> <p>S. 78°05' W. 5.91 chs. At end of course the witness cor. meander cor. of secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E.</p>	
<p>EXTENSION SURVEY AND ACCRETION SURVEY OF A PORTION OF SECTIONS 25, 35 and 36, T. 15 S., R. 23 E., SAN BERNARDINO MERIDIAN, CALIFORNIA</p>		
<p>Extension Survey, Section Line Between Sections 25 and 36</p> <hr style="width: 20%; margin: auto;"/> <p>From the 1960-61 meander cor. of secs. 25 and 36, an iron post, 2½ ins. diam., firmly set in a concrete base, extending 4 ins. above the concrete base, mkd. as described in the 1960-61 resurvey record.</p> <p>East bet. secs. 25 and 36, on the prolongation of the record bearing.</p> <p>5.85 Right bank, present channel, Colorado River, bears N. 52°15' E. and S. 52°22' W.</p> <p>10.47 Left bank, bears N. 40°58' E. and S. 40°58' W.</p> <p>14.18 Point for the ¼ sec. cor. of secs. 25 and 36, 40.00 chs. East of the cor. of secs. 25, 26, 35 and 36.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E ¼ S25 S36 1979</p>		

EXTENSION SURVEY AND ACCRETION SURVEY OF A
 PORTION OF SECTIONS 25, 35 and 36,
 T. 15 S., R. 23 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

<p>CHAINS 28.81</p>	<p>Intersect the 1902-03 Colorado River ordinary low water line survey, at a point from which Angle Point No. 21, bears N. 60°00' E., 0.655 chs. dist.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T15S R23E S25 S36 / MC 1979</p> </div>
<p>EXTENSION AND ACCRETION SURVEY OF SECTION 35, T. 15 S., R. 23 E., SAN BERNARDINO MERIDIAN, CALIFORNIA</p>	
<p>4.11</p>	<p>From the 1961 meander cor. of fractional secs. 2 and 35, on the S bdy. of the Tp., monumented with an iron post, 2½ ins. diam., firmly set in a concrete base, extending 4 ins. above the base, with brass cap mkd. as described in the 1960-61 resurvey record.</p> <p>N. 89°58' E., bet. secs. 2 and 35, on the prolongation of the record bearing.</p> <p>Point for the ¼ sec. cor. of secs. 2 and 35, 40.00 chs. on record bearing from the sec. cor. of secs. 2, 3, 34 and 35, bears S. 89°58' W., 40.00 chs. dist.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T15S R23E ¼ S35 S2 T16S 1979</p> </div>
<p>8.35</p>	<p>Point for the meander cor. of secs. 2 and 35 on the right bank of Colorado River, bears N. 23°25' E. and S. 23° 25' W.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T15S R23E S35 / MC S2 T16S 1979</p> </div> <p>Cor. is located 29 lks. E of unimproved road, 30 lks. wide, bears N. 52° E. and S. 52° W.</p>
<p>From the 1961 witness cor. meander cor. of secs. 35 and 36, monumented with an iron post, 2½ ins. diam., firmly set in a concrete base, extending 4 ins. above base, with brass cap mkd. as described in the 1960-61 resurvey record.</p> <p>From this point the sec. cor. of secs. 25, 26, 35 and 36, bears N. 0°04' E., 22.15 chs. dist., monumented with an iron post, 2½ ins. diam., firmly set in concrete base, with brass cap mkd. as described in the 1960-61 resurvey record.</p> <p>S. 0°04' W., bet. secs. 35 and 36, on the prolongation of the record bearing.</p>	

EXTENSION AND ACCRETION SURVEY OF SECTION 35,
T. 15 S., R. 23 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

CHAINS
1.60

True point for the meander cor. of secs. 35 and 36 on the right bank of the Colorado River, bears N. 42°46' E. and S. 39°43' W.

MEANDERS OF THE PRESENT RIGHT BANK OF THE COLORADO RIVER
IN SECTIONS 35 AND 36,
T. 15 S., R. 23 E., SAN BERNARDINO MERIDIAN, CALIFORNIA

From the witness point on the right bank of the Colorado River in sec. 36, hereinafter described, thence downstream with the meanders of the right bank in sec. 36.

S. 42°46' W. 10.81 chs. At end of course, the true point for the meander cor. of secs. 35 and 36, the witness cor. meander cor. bears N. 0°04' E., 1.60 chs. dist., hereinbefore described.

Thence in sec. 35.

S. 39°43' W. 13.61 chs.

S. 30°27' W. 3.12 chs.

S. 38°30' W., 11.63 chs.

S. 31°46' W. 4.96 chs.

S. 29°30' W. 13.02 chs.

S. 27°51' W. 15.94 chs.

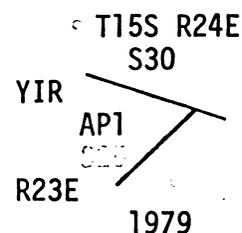
S. 23°25' W. 4.83 chs. At end of course the meander cor. of secs. 2 and 35, hereinbefore described.

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

Beginning at Angle Point No. 1, located at the intersection of the 1960-61 right bank of the Colorado River, bears S. 75° E. and N. 75° W., and the ordinary low water mark of the 1902-03 abandoned channel of the Colorado River, bears S. 75°00' E. and S. 53°30' W., determined from Sheet P, Plan and Profile of the Colorado River, surveyed in 1902-03 by the U. S. Geological Survey.

At the point for Angle Point No. 1.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth and stone, 2½ ft. base, to top, with brass cap mkd.



SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS	
	<p>Corner is located 20 lks. S of a dirt road, 22 lks. wide, bears N. 80° E. and N. 56° W.</p> <p>Set boundary marker on N side of cor., a 6 ft. fiberglass fence post, 2 ft. in ground, with poster mkd. "Yuma Indian Reservation Boundary".</p> <p>Thence with the survey of the ordinary low water line of the 1902-03 abandoned Colorado River channel, along the east boundary of sec. 30, T. 15 S., R. 24 E., over the present Colorado River channel, and along a portion of the easterly boundary of the Yuma Indian Reservation.</p>
S. 53°30' W. 2.40 chs.	Point for Angle Point No. 2, falls in present channel, not monumented.
S. 50°30' W. 2.30 chs.	Point for Angle Point No. 3, identical with the true point for the meander cor. of secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E., falls in present channel, not monumented.
	From this angle point the witness corner for Angle Point No. 3 and the meander corner of secs. 25 and 30, bears N. 39°30' W., 6.135 chs. dist., hereinbefore described.
	Thence continuing survey along the E boundary now in sec. 25, T. 15 S., R. 23 E., over the present Colorado River channel.
S. 50°30' W. 2.30 chs.	Point for Angle Point No. 4, falls in present channel, not monumented.
S. 57°45' W. 3.50 chs.	Point for Angle Point No. 5, at intersection with the present left bank of the Colorado River, bears S. 75° E. and N. 80° W., 4.00 chs. dist.; thence S. 53° W., 4.00 chs. dist., thence S. 18°20' W., 1.78 chs. dist. to Angle Point No. 7, hereinafter described.
	Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.
	T15S R23E YIR AP5 1979
	Set boundary marker on NW side of iron post.

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS

Note: All Yuma Indian Reservation boundary markers are identical, as hereinbefore described.

S. 81°45' W. 4.10 chs. Point for Angle Point No. 6.

Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.

T15S R23E

YIR

AP6

1979

Set boundary marker on NW side of iron post.

S. 52°15' W. 4.60 chs.

Point for Angle Point No. 7, on the left bank of channel, bears S. 45° E. and N. 18° 20' W.

Channel flows to the canal lock at the E end of Laguna Dam.

S. 56°00' W. 2.60 chs.

Point for Angle Point No. 8, falls in same channel, point not monumented.

S. 52°15' W. 2.80 chs.

Point for Angle Point No. 9, falls on N edge of Laguna Dam which is also the right bank of same channel to canal lock at E end of dam. Laguna Dam bears S. 45° E. and N. 45° W.

Seat a brass tablet, 3½ ins. diam., with 3 in. stem, in drill hole, in cement, flush with surface of dam, with top mkd.

T15S R23E

YIR

AP9

1979

From this point U.S.C. & G.S. "Bdry Pt No 18 Ariz-Calif", 1964, bears S. 44°58' E., 13.48 chs. dist., monumented with a brass tablet, 3 ins. diam., seated in cement, flush with the surface of Laguna Dam.

From "Bdry Pt No 18 Ariz-Calif" U.S.C. & G.S. "Bdry Ref Pt Bolt B Laguna Dam" 1964, bears S. 44°58' E., 35.475 chs. dist.

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS

Also from "Bdry Pt No 18 Ariz-Calif" U.S.C. & G.S. "Bdry Ref Pt Bolt A Laguna Dam" 1964, bears N. $44^{\circ}58'$ W., 35.473 chs. dist.

From Angle Point No. 9, U.S.C. & G.S. triangulation station "Laguna 1964" bears S. $43^{\circ}38'$ E., 16.47 chs. dist., monumented with a brass tablet, 3 ins. diam., seated in cement flush with the surface of Laguna Dam.

S. $56^{\circ}30'$ W. 1.125 chs.

Point for Angle Point No. 10, at intersection with the line between secs. 14 and 15, T. 7 S., R. 22 W., Gila & Salt River Meridian, Arizona. This point falls on the S edge of concrete weir of Laguna Dam.

Seat a brass tablet, $3\frac{1}{2}$ ins. diam., with 3 in. stem, in drill hole, in cement, at S edge of dam, with top mkd.

T15S R23E

YIR
AP10

1979

From this point the meander cor. of secs. 14 and 15, T. 7 S., R. 22 W., G. & S.R.M., Arizona, bears N. $0^{\circ}02'$ W., 1.555 chs. dist., monumented with a brass tablet, $3\frac{1}{2}$ ins. diam., cemented in the concrete weir of Laguna Dam and mkd. as described in the Arizona 1961 resurvey record. This point is now on the Yuma Indian Reservation, add marks AM, for amended monument and year date 1979.

From the same point the witness $\frac{1}{4}$ sec. cor. of secs. 14 and 15, T. 7 S., R. 22 W., G. & S.R.M., Arizona, bears S. $0^{\circ}02'$ E., 14.55 chs. dist., monumented with an iron post, $2\frac{1}{2}$ ins. diam., firmly set, in concrete base, projecting 4 ins. above concrete base, with brass cap mkd. as described in the Arizona 1961 resurvey record.

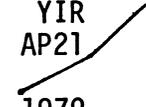
SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS		
	<p>S. 74°22' W. 2.215 chs.</p>	<p>Point for Angle Point No. 11, falls on a granite boulder, 4 x 4 x 2 feet.</p> <p>Set a brass tablet, 3½ ins. diam., with 3 in. stem, in drill hole, in cement, flush with top of boulder, with top mkd.</p> <p style="text-align: center;">T15S R23E YIR AP11 1979</p> <p>Set a boundary marker on the W side of granite boulder.</p>
	<p>S. 58°30' W. 3.80 chs.</p>	<p>Point for Angle Point No. 12.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, and in a mound of earth, 2½ ft. diam., to top of brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP12 1979</p> <p>Set a boundary marker on the NW side of iron post.</p>
	<p>S. 30°15' W. 3.70 chs.</p>	<p>Point for Angle Point No. 13.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP13 1979</p> <p>Set boundary marker on NW side of iron post.</p>
	<p>S. 43°15' W. 4.00 chs.</p>	<p>Point for Angle Point No. 14.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP14 1979</p>

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS	
	<p>Set boundary marker on NW side of iron post.</p>
S. 44°15' W. 4.40 chs.	<p>Point for Angle Point No. 15.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP15 /</p> <p style="text-align: center;">1979</p>
S. 24°30' W. 4.10 chs.	<p>Point for Angle Point No. 16.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP16 /</p> <p style="text-align: center;">1979</p>
S. 14°30' W. 3.60 chs.	<p>Set boundary marker on NW side of iron post.</p> <p>Point for Angle Point No. 17.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP17 /</p> <p style="text-align: center;">1979</p>
S. 10°00' W. 5.50 chs.	<p>Set boundary marker on NW side of iron post.</p> <p>Point for Angle Point No. 18.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP18 /</p> <p style="text-align: center;">1979</p> <p>Set boundary marker on NW side of iron post.</p>

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS		
	S. 18°00' W. 3.90 chs.	<p>Point for Angle Point No. 19.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP19  1979</p> <p>Set boundary marker on NW side of iron post.</p>
	S. 28°30' W. 4.50 chs.	<p>Point for Angle Point No. 20.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP20  1979</p> <p>Set boundary marker on NW side of iron post.</p>
	S. 48°00' W. 3.90 chs.	<p>Point for Angle Point No. 21.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 20 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP21  1979</p> <p>Set boundary marker on NW side of iron post.</p>
	S. 60°00' W. 4.00 chs.	<p>Point for Angle Point No. 22.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, and in a mound of earth, 2½ ft. base, to top, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP22  1979</p> <p>Set boundary marker on NW side of iron post.</p>
	S. 69°30' W. 4.80 chs.	<p>Point for Angle Point No. 23.</p>

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS

Set an iron post, 28 ins.
long, 2½ ins. diam., 22 ins.
in the ground, and in a mound
of earth, 2½ ft. base, to top,
with brass cap mkd.

T15S R23E

YIR
AP23

1979

Set boundary marker on NW
side of iron post.

S. 73°00' W. 4.80 chs.

Point for Angle Point No. 24.

Set an iron post, 28 ins.
long, 2½ ins. diam., 22 ins.
in the ground, and in a mound
of earth, 2½ ft. base, to top,
with brass cap mkd.

T15S R23E

YIR
AP24

1979

Set boundary marker on NW
side of iron post.

S. 69°00' W. 4.80 chs.

Point for Angle Point No. 25.

Set an iron post, 28 ins.
long, 2½ ins. diam., 22 ins.
in the ground, and in a mound
of earth, 2½ ft. base, to top,
with brass cap mkd.

T15S R23E

YIR
AP25

1979

Set boundary marker on NW
side of iron post.

S. 65°30' W. 4.93 chs.

Point for Angle Point No. 26,
at intersection with the
partition line between secs.
15 and 22, T. 7 S., R. 22 W.,
G. & S.R.M., Arizona.

Set an iron post, 28 ins.
long, 2½ ins. diam., 22 ins.
in the ground, and in a mound
of earth and stone, 2½ ft.
base, to top, with brass cap
mkd.

T15S R23E

YIR
AP26

1979

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

CHAINS		
	<p>From this point the witness corner meander corner of secs. 15 and 22, T. 7 S., R. 22 W., G. & S.R.M., Arizona, bears N. 28°58' W., (record bearing), 3.81 chs. dist., monumented with an iron post, 2½ ins. diam., firmly set, extending 6 ins. from the ground, with brass cap mkd. WC SMC S15 S22 T7S R22W 1961 and an arrow pointing to the NW. This cor. falls on the Yuma Indian Reservation, add marks AM for amended monument and year date 1979.</p> <p>Set boundary marker on NW side of iron post.</p>	
S. 62°00' W. 5.00 chs.	Point for Angle Point No. 27, falls in a minor channel of the Colorado River, course SE, point not monumented.	
S. 67°00' W. 5.20 chs.	<p>Point for Angle Point No. 28.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP28 /</p> <p style="text-align: center;">1979</p> <p>Set boundary marker on N side of iron post.</p>	
S. 83°00' W. 4.90 chs.	<p>Point for Angle Point No. 29.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP29 /</p> <p style="text-align: center;">1979</p> <p>Set boundary marker on N side of iron post.</p>	
S. 69°00' W. 5.40 chs.	<p>Point for Angle Point No. 30.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP30 /</p> <p style="text-align: center;">1979</p>	

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

	CHAINS		
		<p>Set boundary marker on N side of iron post.</p> <p>S. 64°00' W. 3.20 chs. Point for Angle Point No. 31.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP31 1979</p>	
		<p>Set boundary marker on N side of iron post.</p> <p>S. 62°00' W. 3.00 chs. Point for Angle Point No. 32, falls on the present left bank of the main channel of the Colorado River, bears N. 57°25' E. and S. 50°05' W.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 22 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T15S R23E YIR AP32 1979</p>	
		<p>Set boundary marker on N side of iron post.</p> <p>Note: Southwesterly and downstream from Angle Point No. 32, the 1902-03 right bank of the Colorado River is determined to have been within the existing bed of the present channel and moved in a westerly direction as a result of erosion to the existing right bank. Therefore Angle Point No. 32 marks the terminus of the right bank of the 1902-03 ordinary low water mark of the abandoned Colorado River channel.</p> <p>Thence</p> <p>N. 35°34' W., across present channel, normal to the thread of the stream of the present main channel.</p> <p>2.99 Point for a witness point on the present meander line of the right bank of the Colorado River.</p> <p>Set an iron post, 28 ins. long, 2½ ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">WP YIR S36 1979</p>	

SURVEY OF THE FIXED BOUNDARY OF THE RIGHT BANK OF THE
ABANDONED 1902-03 COLORADO RIVER CHANNEL

<p>CHAINS</p>	<p>From this witness point, the witness cor. meander cor. of secs. 35 and 36, bears S. 49°12' W., 9.69 chs. dist.</p>
	<p>INFORMATIVE TRAVERSE OF THE RIGHT BANK OF PRESENT CHANNEL OF THE COLORADO RIVER</p>
	<p>The following traverse of the present right bank of the Colorado River is given herein for informational purposes only.</p> <p>From the witness cor. meander cor. of secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E., thence downstream with the traverse of said right bank in sec. 25.</p> <p>S. 65°15' W. 1.48 chs.</p> <p>S. 42°15' W. 2.50 chs.</p> <p>S. 40°45' W. 9.00 chs.</p> <p>S. 60°42' W. 11.39 chs. At end of course the most northerly cor. of the sluice gates on the W end of Laguna Dam, bears S. 35° E., 1.95 chs. dist. to the most easterly cor. of the same sluice gates.</p> <p>S. 56°30' W. 1.36 chs. At 0.36 chs. the most westerly cor. of the same sluice gates, bears S. 35° E., 1.95 chs. dist. to the most southerly cor. of the same sluice gates.</p> <p>S. 44°00' W. 4.10 chs.</p> <p>S. 15°03' W. 2.08 chs.</p> <p>S. 27°06' W. 4.79 chs.</p> <p>S. 12°29' W. 3.06 chs.</p> <p>S. 5°17' E. 4.68 chs.</p> <p>S. 5°09' W. 3.96 chs.</p> <p>S. 26°23' W. 8.01 chs.</p> <p>S. 28°11' W. 4.26 chs.</p> <p>S. 17°44' W. 4.63 chs.</p> <p>S. 41°00' W. 19.64 chs.</p> <p>S. 52°15' W. 2.62 chs. At end of course, sec. line bet. secs. 25 and 36.</p> <p>Thence in sec. 36.</p> <p>S. 52°22' W. 7.17 chs.</p> <p>S. 61°47' W. 10.18 chs.</p> <p>S. 64°01' W. 4.01 chs.</p>

INFORMATIVE TRAVERSE OF THE RIGHT BANK OF
PRESENT CHANNEL OF THE COLORADO RIVER

CHAINS	
	<p>S. 51°27' W. 7.80 chs. At end of course the witness point in sec. 36, hereinbefore described, and end of informative traverse.</p>
	<p>INFORMATIVE TRAVERSE OF THE LEFT BANK OF THE PRESENT CHANNEL OF THE COLORADO RIVER</p>
	<p>The following traverse of the present left bank of the Colorado River is given herein for informational purposes only.</p>
	<p>From a point on the N edge of Laguna Dam, which is S. 44°58' E., 0.91 chs. dist. from "Bolt A" a reference point to U.S.C. & G.S. "Bdry Point No 18 Calif-Ariz", hereinbefore described.</p>
	<p>Thence downstream with the informative traverse of the left bank in sec. 25 along E side of an isthmus of land.</p>
	<p>N. 67°41' E. 5.83 chs.</p>
	<p>N. 21°00' E. 2.05 chs.</p>
	<p>N. 64°00' E. 11.48 chs.</p>
	<p>N. 9°44' E. 5.40 chs. At 3.53 chs., intersect the partition line bet. secs. 25 and 30, Tps. 15 S., Rs. 23 and 24 E.</p>
	<p>Thence continue in sec. 30, T. 15 S., R. 24 E. to end of course.</p>
	<p>N. 82°39' W. 0.72 chs. Across N end of isthmus.</p> <p>Thence continuing downstream on the left bank of the W side of same isthmus in sec. 30.</p>
	<p>S. 22°49' W. 2.17 chs. At 1.04 chs., intersect same partition line and continue in sec. 25, T. 15 S., R. 23 E. to end of course.</p>
	<p>S. 59°45' W. 2.24 chs.</p>
	<p>S. 51°15' W. 1.16 chs.</p>
	<p>S. 36°00' W. 2.38 chs.</p>
	<p>S. 54°00' W. 2.00 chs.</p>
	<p>S. 64°00' W. 2.45 chs.</p>
	<p>S. 65°00' W. 3.60 chs.</p>
	<p>S. 62°30' W. 5.32 chs.</p>

INFORMATIVE TRAVERSE OF THE LEFT BANK
OF THE PRESENT CHANNEL OF THE COLORADO RIVER

<p>CHAINS</p>	<p>S. 56°30' W. 2.46 chs.</p> <p>S. 58°30' W. 1.41 chs.</p> <p>S. 25°35' W. 2.76 chs.</p> <p>S. 56°15' W. 3.04 chs.</p> <p>S. 26°40' W. 2.13 chs.</p> <p>S. 18°10' W. 3.67 chs.</p> <p>S. 23°30' E. 3.02 chs.</p> <p>S. 3°12' E. 2.53 chs.</p> <p>S. 6°12' W. 4.45 chs.</p> <p>S. 23°34' W. 16.61 chs.</p> <p>S. 36°25' W. 14.10 chs.</p> <p>S. 40°38' W. 13.35 chs.</p> <p>S. 66°29' W. 8.14 chs.</p> <p>S. 57°25' W. 18.19 chs.</p>	<p>At 2.10 chs., most easterly cor. of the sluice gates at the W end of Laguna Dam.</p> <p>At end of course the most southerly cor. of same sluice gates from which "Bolt A" reference point, hereinbefore described, bears S. 81°03' E., 1.77 chs. dist.</p> <p>At 6.51 chs., intersect sec. line bet. secs. 25 and 36, continue on same course in sec. 36.</p> <p>At end of course, the amended monument of the meander cor. of secs. 15 and 22, T. 7 S., R. 22 W., G. & S.R.M., Arizona, hereinbefore described.</p> <p>At end of course, Angle Point No. 32 on the right bank of the 1902-03 abandoned Colorado River channel and end of informative traverse.</p>
<p>GENERAL DESCRIPTION</p>		
<p>The lands included under this survey are at the north-easterly portion of the Yuma Indian Reservation, extending northeasterly along the right bank of the Colorado River, north of Laguna Dam in T. 15 S., R. 24 E., and south of Laguna Dam southwesterly to the south boundary of T. 15 S., R. 23 E. The Colorado River has been diverted to the west end of Laguna Dam to sluice gates controlling the water flow downstream and to the east end of the dam through canal locks in Arizona.</p>		

GENERAL DESCRIPTION

CHAINS

The land along this area is generally rich bottom land well suited to agricultural purpose, with dense brush in uncultivated areas along the river consisting generally of salt cedar, willow, bamboo reed, cattail and arrowweed.

The elevation is approximately 150 ft. above sea level, with low granite hills reaching about 400 ft. elevation of the east and west sides of Laguna Dam.

Form 9600-11
(August 1979)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELD ASSISTANTS

NAMES	CAPACITY
Robert G. Nicolli	Cadastral Surveyor
Jervis Swannack	Cadastral Surveyor
Larry E. Nagle	Surveying Technician
Daniel H. Dierenfield	Surveying Technician
Bruce E. Chadd	Survey Aid
Richard G. Smyth	Survey Aid
Richard D. Leverton	Survey Aid
Roxanne Araki	Survey Aid

CERTIFICATE OF SURVEY

(I) ~~XXXX~~ Jack W. Rabedew

, HEREBY

CERTIFY upon honor that, in pursuance of special instructions bearing date of the 15th day

of October, 1979, (I) ~~XXXX~~ have made the dependent resurvey of a portion of the west boundary, subdivisional lines, meander lines and accretion survey of section 30, T. 15 S., R. 24 E.; the survey of new meander lines; the extension survey of a portion of the subdivisional lines and accretion surveys of sections 25, 35 and 36, T. 15 S., R. 23 E., together with the survey of the fixed and limiting boundary of the 1902-03 right bank of the abandoned channel of the Colorado River, along the ordinary low water line, and the informative traverse of a portion of the present banks of the Colorado River, Tps. 15 S., Rs. 23 and 24 E., San Bernardino Meridian, California, all within the Yuma Indian Reservation.

of the San Bernardino Meridian, in the State of California, which are represented in the foregoing field notes as having been executed by (me), ~~XXX~~ and under (my) ~~XXX~~ 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.

DEC 17 1979
(Date)

Jack W. Rabedew
(Cadastral Surveyor)

(Date)

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Denver, Colorado

The foregoing field notes of the dependent resurvey of a portion of the west boundary, subdivisional lines, meander lines and accretion survey of section 30, T. 15 S., R. 24 E.; the survey of new meander lines; the extension survey of a portion of the subdivisional lines and accretion surveys of sections 25, 35 and 36, T. 15 S., R. 23 E., together with the survey of the fixed and limiting boundary of the 1902-03 right bank of the abandoned channel of the Colorado River, along the ordinary low water line, and the informative traverse of a portion of the present banks ~~XXXXXX~~ of the Colorado River, Tps. 15 S., Rs. 23 and 24 E., San Bernardino Meridian, California, all within the Yuma Indian Reservation, executed by ~~XXXXXX~~ Jack W. Rabedew, having been critically examined and found correct, are hereby approved.

DEC 11 1979
(Date)

J. J. [Signature]
(Chief, Cadastral Survey Examination and Approval Staff)

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.

(Date)

(Chief, Cadastral Survey Examination and Approval Staff)