

ORIGINAL

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FIELD NOTES OF THE DEPENDENT RESURVEY OF A PORTION THE SOUTH BOUNDARY,
AND A PORTION OF THE SUBDIVISIONAL LINES,
AND
THE INFORMATIVE TRAVERSES OF THE 1883 RIGHT BANK OF THE COLORADO RIVER
THROUGH SECTIONS 33 AND 34, THE SUBDIVISON OF SECTION 33,
THE INFORMATIVE TRAVERSE AND METES-AND-BOUNDS
SURVEY OF THE RIGHT BANK OF THE ABANDONED COLORADO RIVER IN SECTIONS
33 AND 34, THE INFORMATIVE TRAVERSE OF THE MEDIAL LINE OF THE ABANDONED
CHANNEL OF THE COLORADO RIVER ADJACENT TO SECTIONS 33 AND 34,
THE SURVEY OF THE NORTH AND SOUTH BOUNDARIES OF THE TOPOCK
INLET CANAL LEASE WITHIN THE ABANDONED CHANNEL OF THE COLORADO RIVER,
A RETRACEMENT OF A PORTION OF A LAND DESCRIPTION AND SURVEY MADE PART OF
CV-98-4072, IN THE SUPERIOR COURT OF AZ. IN AND FOR THE COUNTY OF MOHAVE,
TOWNSHIP 9 NORTH, RANGE 23 EAST,
OF THE SAN BERNARDINO MERIDIAN,
IN THE STATES OF ARIZONA AND CALIFORNIA

EXECUTED BY

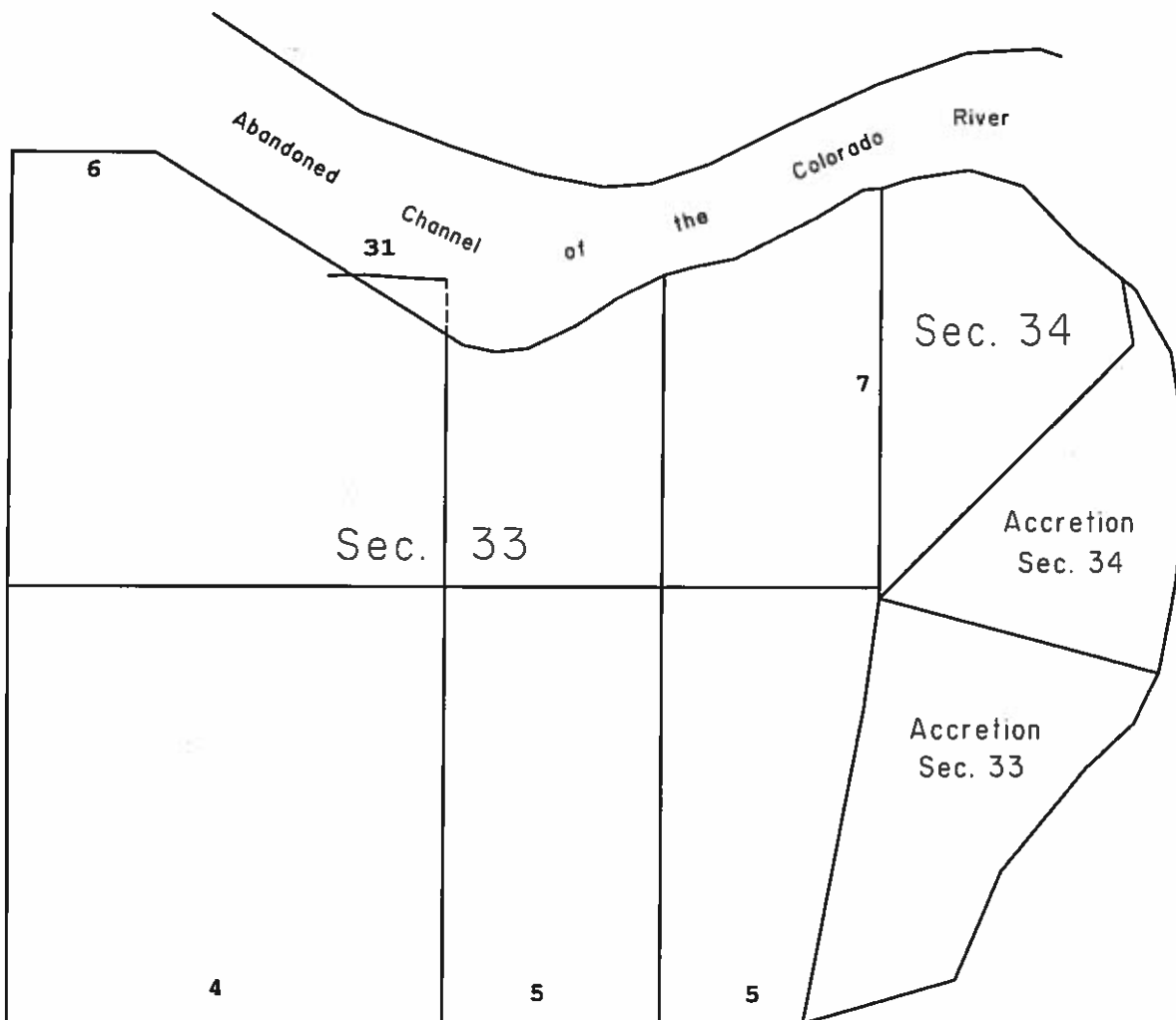
Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated April 28, 2016, approved April 28, 2016,
which provided for the surveys included under Group No. 1154, and assignment
instructions dated April 28, 2016.

**Survey commenced June 22, 2016
Survey completed September 28, 2016**

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SAN BERNARDINO MERIDIAN, CALIFORNIA**



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T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS

The following field notes describe the dependent resurvey of a portion of the south boundary, and a portion of the subdivisional lines, and the informative traverses of the 1883 right bank of the Colorado River through sections 33 and 34, the subdivision of section 33, the informative traverse and metes-and-bounds survey of the right bank of the abandoned channel of the Colorado River in sections 33 and 34, the informative traverse of the medial line of the abandoned channel of the Colorado River adjacent to sections 33 and 34, the survey of the North and South boundaries of the Topock Inlet Canal lease (hereinafter referred to as TIC), within the abandoned channel of the Colorado River, a retracement of a portion of a land description made part of CV-98-4072, in the Superior Court of Arizona in and for the County of Mohave, Township 9 North, Range 23 East, San Bernardino Meridian, California.

Fractional Township 9 North, Range 23 East, was originally surveyed in its entirety by G.W. Baker, Deputy Surveyor in 1883. Sections 33 and 34 are fractional, originally bounded on the E. by the Colorado River. Donald A. Cannon, Cadastral Surveyor in 1961 resurveyed the N., S. and W. boundaries of sec. 33, and subdivided the section. He established witness points at the intersection with "the right bank of the Colorado River at the time of re-channelization".

By way of Grant Deed, dated February 26, 1935, the Bureau of Reclamation acquired title to the W 1/2 of the SE 1/4 of section 33. By way of Grant Deed, dated August 15, 1947, the Bureau of Reclamation acquired title to the W 1/2 of the SE 1/4 of section 28 and the W 1/2 of the NE 1/4 of section 33.

Since the time of the original survey, via the natural processes of accretion and erosion, the right bank of the Colorado River migrated in a southwesterly direction, resulting in a loss of land in the northerly portions of sections 33 and 34 and the addition of lands in the easterly and southerly portions. The channelization of the Colorado River in the 1950's has been deemed an avulsive act, as such the boundaries remain as they were prior to channelization.

The survey was executed in accordance with the specifications as set forth in the Manual of Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated April 28, 2016 for Group Number 1154, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation R8 model receivers.

T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS

Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

Geodetic control was derived from Global Positioning System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) NLVA LAUGHLIN CORS ARP, AZYC YUCCA CORS ARP and AZLH LAKE HAVASU CITY CORS ARP.

The NAD 83(2011)(EPOCH:2010.0000), geographic position of the meander corner on the right bank of the Colorado River in 1883, between sec. 33, T. 9 N., R. 23 E. and sec. 4, T. 8 N., R. 23 E. is as follows:

Latitude: 34°49'20.183" N. Longitude: 114°34'33.201" W.

The NAD 83(2011)(EPOCH:2010.0000), geographic position of the corner of sections 28, 29, 32 and 33 is as follows:

Latitude: 34°50'12.266" N. Longitude: 114°35'30.821" W.

The mean magnetic declination is 11 1/2° E.

**Dependent Resurvey of a Portion of the South Boundary,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

Restoring the survey executed by
Donald A. Cannon, in 1961

Beginning at the cor. of secs. 4, 5, 32 and 33 on the S. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 7 ins. above ground, in a mound of stone, 3 1/2 ft. base, to top, with brass cap mkd. T9N R23E S32 S33 S5 S4 T8N 1961.

N. 89°57' E., bet. secs. 4 and 33, on the S. bdy. of the Tp.

Over rolling desert, across patented lands, within the State of Ca.

19.98

Point accepted as a perpetuation of the W. 1/16 sec. cor. of secs. 4 and 33, monumented with an iron pipe, 1 1/2 ins. diam., projecting 1 in. above ground, with attached 1 3/8 in. diam. plastic cap, stamped ENE LS 5280.

Dependent Resurvey of a Portion of the South Boundary,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>Cor. is located 27 lks. E. of a track road, bears S. 25° E. and N. 25° W.</p> <hr/> <p>N. 89°56' E., beginning new measurement.</p>
3.85	Power line, bears S. 25° E. and N. 25° W.
4.05	Graded railroad access road, 10 ft. wide, bears S. 25° E. and N. 25° W., thence across 4 sets of railroad tracks.
5.45	Graded railroad access road, 10 ft. wide, bears S. 25° E. and N. 25° W., thence descend into bottomlands.
19.98	<p>The 1/4 sec. cor. of secs. 4 and 33, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. T9N R23E 1/4 S33 S4 T8N 1961.</p> <hr/> <p>N. 89°55' E., beginning new measurement.</p> <p>Across bottomlands, through Bureau of Reclamation acquired lands.</p>
14.50	Right bank of the channelized Colorado River, bears S. 20° E. and N. 20° W.
20.01	Point for the E. 1/16 sec. cor., of secs. 4 and 33, determined at proportionate dist.; falls in the channelized Colorado River.
20.38	Left bank of the channelized Colorado River, bears S. 20° E. and N. 20° W., within the State of Arizona.
21.50	Graded road, 12 ft. wide, bears S. 20° E. and N. 20° W.
21.69	<p>Point selected for a witness corner to the E. 1/16 sec. cor. of secs. 4 and 33.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>WC</p> <p>T 9 N R 23 E</p> <p>S 33</p> <p>E 1/16 ←</p> <p>S4</p> <p>T 8 N</p> <p>2016</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>
27.45	Road atop levee, 25 ft. wide, bears S. 21° E. and N. 21° W.

**Dependent Resurvey of a Portion of the South Boundary,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS

33.12

The point for the original meander cor. on the right bank of the Colorado River, reestablished at record dist. in the 1961 BLM survey. Monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 5 ins. above ground, with brass cap mkd. T9N R23E S33 MC S4 T8N 1961.

Cor. is located in dense arrow weed.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

From the cor. of secs. 28, 29, 32 and 33, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. T9N R23E S29 S28 S32 S33 1961.

From this cor., an iron pipe, of unknown origin, 2 ins. diam., firmly set, projecting 18 ins. above ground, with attached iron cap stamped 28, 29, 32 and 33, bears E., 0.4 lks. dist. Set by person(s) unknown, not utilized in the course of this resurvey.

From this same cor. point, an iron pipe, 3 1/2 ins. diam., firmly set, projecting 22 ins. above ground, bears E., 3.4 lks. dist.

Cor. is located 1.4 lks. N. of a woven wire fence, (bears E. and W.), within a storage yard.

S. 89°49' E., bet. secs. 28 and 33, within the State of California.

Across nearly level bottom lands, patented lands to the N., and Bureau of Reclamation Land, leased to the City of Needles, California to the S.

13.20

The witness point, on the right bank of the Colorado River, determined in the 1961 BLM survey to be a common point between the channelized Colorado River and the abandoned Colorado River. Remonumented with a rebar, 1/2 in. diam., firmly set, projecting 8 ins. above ground, with attached 1 in. plastic cap, stamped RCE 15160. Accepted as a careful and faithful perpetuation of the 1961 BLM monument.

Cor. is located 2 lks. N. of a woven wire fence, bears W. and E., for 77 lks. to intersection with water's edge.

The channelized Colorado River at this point bears S. 40° E. and N. 40° W., the abandoned channel of the Colorado River is indistinct.

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 9 N., R. 23 E., San Bernardino Meridian, California

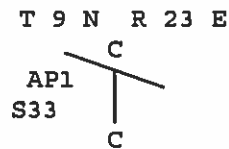
CHAINS	
	<p>From the witness point at the intersection of the right bank of the abandoned channel of the Colorado River with the line bet. secs. 33 and 34, within the State of Arizona. Monumented with a galvanized iron pipe, 2 ins. diam., firmly set, projecting 4 ins. above ground, with attached 1 3/4 ins. diam. metal wafer stamped RLS 6262. Accepted as a careful and faithful perpetuation of the 1961 BLM monument. Cor. is located at the NE cor. of farm roads, extending S. and S. 60° W.</p>
	<p>From this cor. point, a 2 in. diam., iron pipe, firmly set, projecting 4 ins. above ground, with 3 ins. diam. brass cap incorrectly stamped T23N R9E WP E33 RLS 16617, bears N. 0°43' W., 1.00 chs. dist. This monument was established, as per Bk 7, Page 49, Mohave County Recorder's Office, by Jack L. Stovall, Arizona R.L.S. No. 16617. As per the above mentioned plat, this cor. was established incorrectly by measuring the improper 1961 record dist., 37.60 chs., from the 1/4 sec. cor. of secs. 33 and 34. The proper record dist. from the 1/4 cor. is 36.60 chs. Subsequently this iron pipe falls in the bed of the abandoned Colorado River and is not utilized in the course of this resurvey.</p>
	<p>From this same cor. point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, projecting 1 in. above ground, with aluminum cap stamped CALIFORNIA STATE LANDS COMMISSION BLA-C6 1990, bears N. 30°53' E., 1.54 chs. dist. Cor. was established as part of a Boundary Line Agreement, (BLA), between the State of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located within the bed of the abandoned Colorado River.</p>
	<p>S. 0°19' W., bet. secs. 33 and 34.</p>
	<p>Through dense arrow weed, on E. side of agriculture field, across patented lands.</p>
36.60	<p>The 1/4 sec. cor. of secs. 33 and 34, monumented with an iron pipe, 2 ins. diam., set 12 ins. below the surface, with attached 3 ins. diam., brass cap stamped 1997 RLS 25088, with other worn out marks illegible. An iron pipe, 18 ins. long, 2 1/2 ins. diam. with attached 2 1/2 ins. diam. brass cap stamped T9N R23E 1/4 S33 S34 RLS 30351 was loosely set atop the 2 in. diam. pipe. Reset the 2 1/2 in. diam. iron pipe, 12 ins. in the ground atop the 2 in. diam. iron pipe. Accepted as a careful and faithful perpetuation of the 1961 BLM monument.</p>
	<p>S. 0°17' W., beginning new measurement.</p>
1.00	<p>The point for the original meander cor. on the right bank of the Colorado River, reestablished at record dist. in the 1961 BLM survey. Monumented with an iron post, 2 1/2 ins. diam., set 4 ins. below the surface, with brass cap mkd. T9N R23E S33 S34 MC 1961.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	Cor. is located on the S. side of a fence cor. with barbed wire fences extending S. 75° E. and W.
	<hr/> Restoring the survey executed by Donald A. Cannon, in 1961 <hr/>
	From the 1/4 sec. cor. of secs. 4 and 33, on the S. bdy. of the Tp., hereinbefore described.
	N. 0°17' E., on the N. and S. center line of sec. 33, Bureau of Reclamation lands to the E., patented lands to the W.
	Over bottom lands, through dense arrow weed and salt cedar, within State of California.
11.75	Graded road to gauging station on Colorado River, 30 ft. wide, bears N. 60° E. and S. 60° W.
33.26	Point for the witness point set in the 1961 BLM survey, at proportionate dist., there is no remaining evidence of the cor., not remonumented.
33.70	Right bank of channelized Colorado River, bears S. 35° E. and N. 35° W.
40.00	Point for the center 1/4 sec. cor. of sec. 33, at intersection with E. and W. center line, falls in channelized Colorado River.
45.45	Left bank of channelized Colorado River, bears S. 30° E. and N. 30° W., thence within State of Arizona.
46.60	Graded road, 10 ft. wide, bears S. 30° E. and N. 30° W.
56.20	Graded road, 20 ft. wide, bears N. 60° E. and S. 60° W.
59.60	Graded road atop levee, 30 ft. wide, bears S. 30° E. and N. 30° W.
63.10	Point for Angle Point 1, of the metes-and-bounds survey of the abandoned right bank of the Colorado River in the W. 1/2 of the NE 1/4 of sec. 33.
	Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, 1/2 filled with concrete, with brass cap mkd.

Subdivision of Section 33,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS



2016

Deposit a magnet, in a white plastic case, beneath the plastic bucket.

The metes-and-bounds survey is hereinafter described.

From this cor. point, an iron pipe, 1 in. diam., set 2 ins. below the surface, with attached metal tag, stamped RLS 30351, bears N. 0°17' E., 5.04 chs. dist. Accepted as a perpetuation of the witness point on the right bank of the Colorado River before channelization, as established in the 1961 BLM survey. The preponderance of evidence, both physical and via aerial photographs, leads to the conclusion that this cor. was in 1961, established in error. It does not represent the right bank of the Colorado River prior to channelization, and is utilized for direction only.

From the point accepted for the 1/4 sec. cor. of secs. 32 and 33, monumented with an iron pipe, 2 ins. diam., firmly set, projecting 2 ins. above ground, with attached 2 ins. diam. brass cap stamped LEMME ENGR. T9N R23E 1/4 32 33 2008 CIVIL 20297, and is accepted as a careful and faithful determination of the position of the orig. cor. The monument set in the 1961 BLM resurvey was not found.

S. 89°59' E., on the E. and W. center line of sec. 33.

Across patented lands, within city of Needles, California.

- | | |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35.70 | Right cut bank of channelized Colorado River, 10 ft. high, bears S. 25° E. and N. 25° W. |
| 35.72 | Point for the witness point set in the 1961 BLM survey, at proportionate and record dist., lands on the side of bank of channelized Colorado River, the monument set in 1961 was not found. Not remonumented. |
| 40.20 | Point for the center 1/4 sec. cor. of sec. 33, falls in channelized Colorado River. |
| 43.40 | Left cut bank of channelized Colorado River, 10 ft. high, bears S. 35° E. and N. 35° W. thence within State of Arizona, over BOR lands. |
| 43.85 | Graded road, 10 ft. wide, bears S. 35° E. and N. 35° W. |

Subdivision of Section 33,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
51.40	Graded road atop levee, 30 ft. wide, bears S. 25° E. and N. 25° W.
53.07	From this point, the S. end of gate, across graded road, bears N. 10 lks. dist., gate extends N., continue along S. side of graded road.
60.15	<p>Point accepted for the center E. 1/16 sec. cor. of sec. 33, monumented with a 3 ins. diam. brass cap, seated in a 6 ins. diam., steel survey well, set 3 ins. below the surface. Brass cap is marked R.L.S. 25088, and is accepted as a careful and faithful determination of the position of the orig. cor. The monument set in the 1961 BLM survey was not found.</p> <p>Cor. is located at the SW cor. of agricultural operation, with farm roads extending E. and N.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 89°59' E., beginning new measurement.</p> <p>Within patented lands.</p>
19.95	<p>The 1/4 sec. cor. of secs. 33 and 34, hereinbefore described.</p> <hr style="width: 20%; margin: 10px auto;"/> <p style="text-align: center;">NE 1/4</p> <hr style="width: 20%; margin: 10px auto;"/> <p>From the cor. accepted for the center E. 1/16 sec. cor. of sec. 33, hereinbefore described.</p> <p>N. 0°21' E., on the N. and S. center line of the NE 1/4 of sec. 33.</p> <p>In and along a barbed wire fence, BOR land to the W. and an agricultural operation to the E.</p>
28.59	<p>Point accepted as a witness point, (identical with Angle Point 7, of the metes-and-bounds survey in the W. 1/2 of the NE 1/4 of sec. 33, hereinafter described), at intersection with the abandoned right bank of the Colorado River. Established in 1990 by Jack L. Stovall, Arizona R.L.S. No. 16617, survey is recorded in book 7, page 49, Mohave County Recorder's Office. Monumented with a 2 ins. diam., iron pipe, firmly set, projecting 2 ins. above ground, with attached 3 ins. diam. brass cap, stamped T9N R23E WP NE 1/16 RLS 16617.</p> <p>Cor. is located on bank, above a slough, within the abandoned Colorado River, 30 lks. N. of the terminus of a barbed wire fence, extending S.</p> <p>From this cor. point, an iron pipe, 5 ins. diam., projecting 5 ins. above ground, bears N. 5 lks. dist.</p>

Subdivision of Section 33,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS

From this same cor. point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, projecting 9 ins. above the ground, with aluminum cap stamped CALIFORNIA STATE LANDS COMMISSION BLA-C1 1990, bears N. 14°54' W., 61.5 lks. dist. Cor. was established as part of a Boundary Line Agreement (BLA), between the state of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located on the side of the right bank of the abandoned Colorado River, 8 ft. S., of the waters of a slough within the abandoned channel.

SE 1/4

From the true point for the E. 1/16 sec. cor. of secs. 4 and 33, on the S. bdy. of the Tp., within the channelized Colorado River, hereinbefore described.

N. 0°12' E., on the N. and S. center line of the SE 1/4 of sec. 33.

Bureau of Reclamation land to the W., patented lands to the E.

- | | |
|-------|----------------------------------------------------------------------|
| 1.10 | Left bank of the channelized Colorado River |
| 4.00 | Graded and graveled road, 15 ft. wide, bears S. 20° E. and N. 20° W. |
| 18.40 | Graded road atop levee, 30 ft. wide, bears S. 20° E. and N. 20° W. |
| 39.96 | The point accepted as the center E. 1/16 sec. cor. of sec. 33. |

**Informative Traverse of the Adjusted Meanders of the
Right Bank of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

Restoring the survey executed by
G.W. Baker, in 1883

From the meander cor. of secs. 33 and 34, reestablished in the 1961 BLM survey, hereinbefore described.

Thence downstream with the adjusted 1883 meanders of the right bank of the Colorado River, over patented lands within the accretions to sec. 33.

S. 7°54' W., 9.90 chs.

**Informative Traverse of the Adjusted Meanders of the
Right Bank of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS

S. 10°56' W., 29.67 chs.

The meander cor. of secs.
4 and 33, on the S. bdy.
of the Tp., hereinbefore
described.

From the meander cor. of secs. 33 and 34, reestablished in the
1961 BLM survey, hereinbefore described.

Thence upstream with the record 1883 meanders of the right bank
of the Colorado River, over patented lands within the accretions
to sec. 34.

N. 45°00' E., 33.000 chs.

N. 10°00' E., 6.10 chs.

Intersect the right bank of
the abandoned Col. River,
prior to channelization,
hereinafter described.

**Informative Traverse and Metes-and-Bounds Survey of the Right
Bank of the Abandoned Channel of the Colorado River
in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

The following informative traverse and metes-and-bounds survey in
sections 33 and 34, identify the right bank of the abandoned
channel of the Colorado River prior to the 1950's channelization
by the U.S. Bureau of Reclamation. The channelization has been
deemed an avulsive act, ipso facto the abandoned channel, divided
at the medial line, remains sovereign lands of the States of
Arizona and California respectively. The purpose of this survey
is to (1) Identify lands leased by the U.S. Bureau of Reclamation,
from the State of California (PRC 3335.9) for the operation and
maintenance of the Topock Inlet Canal, within the abandoned channel
of the Colorado River, and (2) Identify the limits of lands
acquired by the U.S. Bureau of Reclamation, in the W. 1/2 of the
E. 1/2 of sec. 33.

Due to the passage of time and man-made factors, the right bank
of the abandoned Colorado River in the W. 1/2 of sec. 33, is not
readily discernable. The best available evidence of the bank was
deemed to be an aerial photograph, (obtained from California State
University, San Bernardino) dated 12-23-1949.

The metes-and-bounds portion of this survey is across federal
interest lands, the informative traverse portions are across
patented lands.

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>From the witness point on the line bet. secs. 28 and 33, at intersection with the right bank of the abandoned Colorado River, hereinbefore described.</p>
	<p>S. 58°03' E., downstream, on an informative traverse, of the abandoned right bank of the Colorado River, in the NW 1/4 of sec. 33.</p>
	<p>Across the channelized Colorado River.</p>
17.91	<p>Intersect the left bank of the channelized Colorado River, 10 ft. above water, bears S. 25° E. and N. 25° W.</p>
27.90	<p>Road atop levee, 30 ft. wide, bears S. 30° E. and N. 30° W.</p>
28.75	<p>Barbed wire fence, bears S. 30° E. and N. 30° W.</p>
31.55	<p>Point for Angle Point 1, at intersection with the N. and S. center line of sec. 33, hereinbefore described.</p>
	<hr/> <p style="text-align: center;">Metes-and-Bounds Survey in W. 1/2 of the NE 1/4, Sec. 33</p> <hr/>
	<p>From Angle Point 1, on the N. and S. center line of sec. 33.</p>
	<p>S. 58°03' E., on line 1-2.</p>
	<p>Downstream, along a well-defined bank, about 10 ft. above a slough in the abandoned bed of the Colorado River.</p>
1.84	<p>Point for Angle Point 2.</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, 1/2 filled with concrete, with brass cap mkd.</p>
	<p style="text-align: center;">T 9 N R 23 E</p> <p style="text-align: center;">AP2 S33 2016</p>
	<p>Deposit a magnet, in a white plastic case, beneath the plastic bucket.</p>
	<hr/> <p>S. 78°48' E., on line 2-3.</p>
3.045	<p>Point for Angle Point 3.</p>

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <p style="text-align: center;">T 9 N R 23 E</p> <p style="text-align: center;">AP3 S33 2016</p> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 83°58' E., on line 3-4.</p>
2.95	<p>Point for Angle Point 4.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <p style="text-align: center;">T 9 N R 23 E</p> <p style="text-align: center;">AP4 S33 2016</p> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 64°48' E., on line 4-5.</p>
4.92	<p>Point for Angle Point 5.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <p style="text-align: center;">T 9 N R 23 E</p> <p style="text-align: center;">AP5 S33 2016</p> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 56°12' E., on line 5-6.</p>
4.61	<p>Point for Angle Point 6.</p>

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.

T 9 N R 23 E

AP6
S33
2016

Deposit a magnet, in a white plastic case, beneath the plastic bucket.

N. 63°54' E., on line 6-7.

- 4.72 Point for Angle Point 7, identical with the witness point on the N. and S. center line of the NE 1/4 of sec. 33, hereinbefore described.

Continue downstream, from Angle Point 7, on an informative traverse, of the right bank of the abandoned Colorado River, in the E 1/2 of the NE 1/4 of sec. 33.

N. 74°28' E., along a well-defined bank, 10-15 ft. above a slough in the abandoned bed of the Colorado River.

- 3.03 Meander point.

From this point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, 1 in. below the surface, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C2 1990, bears N. 10°29' E., 41 lks. dist. Cor. was established as part of a BLA, between the State of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located on the side of the right bank of the abandoned Colorado River, 4 ft. S., of the waters of a slough within the abandoned channel.

N. 79°00' E., along a well-defined bank, 10-15 ft. above a slough in the abandoned bed of the Colorado River.

- 3.59 Meander point.

From this point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, 12 ins. below the surface, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C3 1990, bears N. 23°12' W., 29 lks. dist. Cor. was established as part of a BLA, between the State of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located on the side of the right bank of the abandoned channel of the Colorado River.

**Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS	
	<p>N. 63°10' E., along a well-defined bank, 10-15 ft. above a slough in the abandoned bed of the Colorado River.</p>
8.41	<p>Meander point.</p> <p>From this point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, 7 ins. above the ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C4 1990, bears S. 71°44' W., 2.84 chs. dist. Cor. was established as part of a BLA, between the State of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located on the side of the right bank of the abandoned Colorado River, 1 ft. S., of the waters of a slough within the abandoned channel.</p>
4.95	<p>N. 58°54' E., along a well-defined bank, 10-15 ft. above a slough in the abandoned bed of the Colorado River.</p> <p>Meander point.</p> <p>From this point, an aluminum cap, 2 ins. diam., set in a 8 ins. diam. concrete cylinder, 2 ins. below the surface, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C5 1990, bears N. 59°42' W., 84 lks. dist. Cor. was established as part of a BLA, between the State of California and the upland owner. The BLA is hereinafter more fully described. Cor. is located on the side of the right bank of the abandoned Colorado River, about 4 ft. S., of the waters of a slough within the abandoned channel.</p>
1.79	<p>N. 85°00' E., along a well-defined bank, 10-15 ft. above a slough in the abandoned bed of the Colorado River.</p> <p>The witness point on the line bet. secs. 33 and 34, hereinbefore described.</p>
	<p align="center">Informative traverse of the right bank of the abandoned Colorado River in sec. 34</p> <hr/> <p>Preliminary Statement: A boundary line agreement (BLA) between the California State Land Commission (acting in behalf of the State of California) and Robert Chesney (the upland owner) fixed the abandoned right bank of the Colorado River in section 34 and a portion of section 33. This agreement is recorded in the Mohave County Recorder's Office in book 2074, pages 749-765. The land description within the BLA, referenced as exhibit "A" (p. 760) was surveyed. Corner number 1 through corner number 5 of this survey are located on the side bank of the abandoned channel, 3 to 5 ft. above the water, of a slough, within the abandoned channel, adjacent to the E 1/2 of the NE 1/4 of sec. 33.</p>

**Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS	
	<p>Corner number 5 to corner number 7 deviate from the slough, within the abandoned channel adjacent to sec. 33. Corner number 7 to corner number 15 are located along a well-defined bank 5 to 10 ft. above the dry bed.</p>
	<p>The monument identifying the division of accretion point between sections 33 and 34 is located on the side bank of the abandoned channel.</p>
	<p>The following informative traverse is in harmony with the BLA and concludes that the right bank, as surveyed, is the best available evidence of the last location of the Colorado River prior to channelization. This conclusion is in harmony with the resurvey and informative traverse of the opposing abandoned left bank of the Colorado River. The informative traverse was necessary to define the center line of the abandoned channel of the Colorado River, for the reasons previously stated.</p>
	<p>The resurvey of the meanders of the abandoned left bank, in sec. 24, T. 17 N., R. 22 W., G. & S.R. Mer., Arizona, and the resurvey of the informative traverse of the abandoned left bank in sec. 19, T. 17 N., R. 21 W., G. & S. R. Mer., Arizona, were executed concurrently under this same group.</p>
	<p>From the witness point on the line bet. secs. 33 and 34, hereinbefore described.</p>
	<p>N. 72°24' E., atop the right bank of the abandoned channel.</p>
	<p>Deviating from a slough within the abandoned channel of the Colorado River.</p>
<p>3.00</p>	<p>Meander point.</p> <hr style="width: 20%; margin-left: auto; margin-right: auto;"/>
	<p>N. 81°21' E., atop the right bank of the abandoned channel of the Colorado River.</p>
<p>5.25</p>	<p>Point for corner number 7 of the BLA, reestablished utilizing the BLA record data, at proportionate dist., by means of the compass rule adjustment. There is no remaining evidence of the cor. Not monumented.</p> <hr style="width: 20%; margin-left: auto; margin-right: auto;"/>
	<p>S. 73°10' E., atop the right bank of the abandoned channel of the Colorado River.</p>
<p>5.13</p>	<p>Point for corner number 8 of the BLA, reestablished utilizing the BLA record data, at proportionate dist., by means of the compass rule adjustment. Not monumented.</p>

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>The cor. point is located alongside a corner of a downed fence, extends SE and WNW.</p> <hr/>
	<p>S. 43°30' E., atop the right bank of the abandoned channel of the Colorado River.</p>
	<p>In and along a barbed wire fence.</p>
7.18	<p>Cor. number 9 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 8 ins. above ground, with aluminum cap stamped CALIFORNIA STATE LANDS COMMISSION BLA-C9 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/>
	<p>S. 51°59' E., atop the right bank of the abandoned channel of the Colorado River.</p>
	<p>In and along a barbed wire fence.</p>
5.29	<p>Intersect the record meander line of section 34.</p>
	<p>From this point, the computed meander cor. of section 27 and 34, bears N. 10°00' E., 11.90 dist., falls in abandoned bed of Colorado River.</p>
	<p>From this same cor. point, a computed meander cor. of sec. 34 bears S. 10°00' E., 6.10 chs. dist., falls within the accretions to sec. 34. Not monumented.</p>
	<p>Continuing measurement, within accretions to sec. 34.</p>
6.90	<p>Cor. number 10 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, located 3 ins. below the surface, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C10 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/>
	<p>S. 29°17' E., atop the right bank of the abandoned channel of the Colorado River.</p>
	<p>In and along a barbed wire fence.</p>
	<p>Thence, within accreted lands to section 34.</p>
6.59	<p>Cor. number 11 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 3 ins. above ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C11 1990.</p>

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/> <p>S. 9°09' E., atop the right bank of the abandoned channel of the Colorado River.</p> <p>In and along a barbed wire fence.</p>
8.95	<p>Cor. number 12 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 1 ins. above ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C12 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/> <p>S. 1°55' W., atop the right bank of the abandoned channel of the Colorado River.</p> <p>In and along a barbed wire fence.</p>
4.91	<p>Cor. number 13 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 14 ins. above ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C13 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/> <p>S. 6°03' W., atop the right bank of the abandoned channel of the Colorado River.</p> <p>In and along a barbed wire fence.</p>
7.24	<p>Cor. number 14 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 6 ins. above ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C14 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/> <p>S. 10°35' W., atop the right bank of the abandoned channel of the Colorado River.</p> <p>In and along a barbed wire fence.</p>
8.03	<p>Cor. number 15 of the BLA, monumented with an aluminum cap, set in a 8 ins. diam., concrete cylinder, projecting 1 ins. above ground, stamped CALIFORNIA STATE LANDS COMMISSION BLA-C15 1990.</p>
	<p>Cor. is located alongside a barbed wire fence.</p> <hr/>

Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>S. 11°43' W., atop the right bank of the abandoned channel of the Colorado River.</p> <p>In and along a barbed wire fence.</p>
0.56	<p>A fence corner on the abandoned right bank of the Colorado River, identical with a witness point on the division of accretion line bet. secs. 33 and 34. Barbed wire fences extend N. 12° E. and N. 75° W.</p> <p>From this cor. point, an iron pipe, 1 inch diam., with attached brass cap stamped 30351, bears S. 87°36' E., 16 lks. dist., located on the side slope of the right bank of the abandoned Colorado River.</p> <p>From this same cor. point, the meander cor. of secs. 33 and 34, bears N. 75°11' W., 26.56 chs. dist., hereinbefore described.</p> <hr/> <p style="text-align: center;">Informative traverse of the right bank of the abandoned Colorado River in sec. 33</p> <hr/> <p>Preliminary Statement: The following informative traverse was executed to identify the accretions attached to sec. 4, T. 8 N., R. 23 E. Lots 1 and 2 of sec. 4 and the accretions thereof were acquired by the U.S. Bureau of Reclamation via grant deed dated March 13, 1939.</p> <p>To identify the division of accretion line between secs. 4 and 33, the abandoned right bank of the Colorado River was surveyed, from the witness point on the division of accretion line bet. secs. 33 and 34, to the zero accretion point in sec. 4, T. 8 N., R. 23 E.</p> <p>The division of accretion was calculated using the proportionate shore line method. The survey of the right bank of the abandoned Colorado river through sec. 4, is fully described in the field note record of T. 8 N., R. 23 E., executed concurrently under this same group.</p> <p>From the witness point, identical with a fence cor., on the division of accretion line bet. secs. 33 and 34, hereinbefore described.</p> <p>S. 26°00' W., along a well-defined bank, about 5 ft. above bed, over patented lands.</p>
5.07	<p>Meander point.</p> <hr/> <p>S. 47°08' W., along a well-defined bank, about 3 ft. above bed.</p>

**Informative Traverse and Metes-and-Bounds Survey of the Right Bank
of the Abandoned Channel of the Colorado River in secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS	
6.06	<p>Meander point.</p> <hr/> <p>S. 39°16' W., on low bank, along edge of salt cedar and arrow weed.</p>
12.25	<p>Meander point.</p> <hr/> <p>S. 22°55' W., on low bank, along edge of salt cedar and arrow weed.</p>
10.82	<p>Point for a witness point, on the division of accretion line bet. sec. 33 and sec. 4, T. 8 N., R. 23 E.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <div data-bbox="721 877 938 1056" style="text-align: center;"> <p>T9N R23E S33 T8N S4 MC R23E 2016</p> </div> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket.</p> <p>From this cor., the meander cor. between secs. 4 and 33, Tps. 8 and 9 N., R. 23 E., bears S. 74°02' W., 14.59 chs. dist., hereinbefore described.</p>
<p>Informative Traverse of the Medial Line of the Abandoned Bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., California, sec. 24, T. 17 N., R. 22 W., Gila and Salt River Mer., Arizona, and sec. 19, T. 17 N., R. 21 W., Gila and Salt River Mer., Arizona</p>	
<p>Preliminary Statement: The following informative traverse was executed to define the boundary between the sovereign lands of the States of California and Arizona, within the abandoned bed of the Colorado River to define the boundaries of Lease No. PRC 3335.9 (an easement from the State of California to the U.S. Bureau of Reclamation for the maintenance and operation of the Topock Inlet Canal (TIC) within the abandoned channel of the Colorado River), and Contract No. 14-06-300-1674 (a grant of easement from the State of Arizona to the U.S. Bureau of Reclamation, for the maintenance and operation of the TIC within the abandoned channel of the Colorado River).</p>	

Informative Traverse of the Medial Line of the Abandoned Bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., CA, sec. 24, T. 17 N., R. 22 W., Gila and Salt River Mer., AZ, and sec. 19, T. 17 N., R. 21 W., Gila and Salt River Mer., AZ

CHAINS

The calculation of the medial line is based upon (1) The survey and informative traverse of the abandoned right bank of the Colorado River, in secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., California, hereinbefore described, (2) The dependent resurvey of a portion of the left bank of the abandoned Colorado River in sec. 24, T. 17 N., R. 22 W., Gila & Salt River Mer., Arizona, and (3) The dependent resurvey of the informative traverse of the abandoned left bank of the Colorado River, in sec. 19, T. 17 N., R. 21 W., G. & S.R. Mer., Arizona. Items (2) and (3), are recorded in the field note returns for T. 17 N., Rs. 21 and 22 W., Gila & Salt River Mer., Arizona, executed concurrently under this same group.

From a point on the medial line of the abandoned channel of the Colorado River, within the channelized Colorado River.

From this point the witness point on the line bet. secs. 28 and 33, at the intersection of the channelized Colorado River and the abandoned Colorado River, as determined in the 1961 BLM resurvey, bears S. 32°46' W., 6.755 chs. dist., on a line normal to the medial line of the abandoned channel of the Colorado River, hereinbefore described.

From this same point, Angle Point 11 of the dependent resurvey of the meander line of the abandoned left bank of the Colorado River in sec. 24, T. 17 N., R. 22 W., G. & S.R. Mer., Arizona, bears N. 12°54' E., 7.22 chs. dist. Cor. is described in the field note returns of T. 17 N., R. 22 W., G. & S.R. Mer., Arizona, executed concurrently under this same group.

S. 57°13' E., on the medial line of the abandoned Colorado River, within channelized river.

5.20 Intersect the left bank of the channelized Colorado River, bears S. 40° E. and N. 40° W., thence over dry bed.

14.55 Medial point.

S. 63°12' E., on the medial line of the abandoned Colorado River.

0.90 Graded road atop levee, 30 ft. wide, bears S. 30 E. and N. 30° W.

2.06 Intersect the N. boundary of the TIC easement, granted from the State of Arizona to the U.S. Bureau of Reclamation, extends N. 61°19' E. The metes-and-bounds survey of the northerly boundary of the TIC is described in the field note record of T. 17 N., R. 22 W., Gila & Salt River Meridian, Arizona, executed concurrently under this same group.

Informative Traverse of the Medial Line of the Abandoned Bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., CA, sec. 24, T. 17 N., R. 22 W., Gila and Salt River Mer., AZ, and sec. 19, T. 17 N., R. 21 W., Gila and Salt River Mer., AZ

CHAINS	
2.08	Intersect a battered barbed wire fence, bears N. 61° E. and S. 61° W., for 10 lks., to fence cor., thence S. 28° E.
2.975	Intersect the N. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends, S. 61°19' W. Survey of the lease is hereinafter described.
3.13	Northerly earthen bank of TIC, 10 ft. above water, extends N. 61° E. and S. 61° W.
3.90	Center line of TIC, 40 ft. wide at bottom, bears N. 61°19' E. and S. 61°19' W.
4.67	Southerly earthen bank of TIC, 10 ft. above water, extends N. 61° E. and S. 61° W.
4.82	Intersect the S. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends, S. 61°19' W. Survey of the lease is hereinafter described.
5.74	Intersect the S. boundary of the TIC easement, granted from the state of AZ to the U.S. Bureau of Reclamation, extends N. 61°19' E. The metes-and-bounds survey of the southerly boundary of the TIC is described in the field note record of T. 17 N., R. 22 W., G. & S.R. Mer., AZ, executed concurrently under this same group.
10.05	<p>Medial point.</p> <hr/> <p>S. 65°31' E., on the medial line of the abandoned Colorado River.</p>
4.54	<p>Intersect the most westerly side, of a six sided, woven wire fence enclosure, around a U.S. Bureau of Reclamation ware yard. Thence describing the enclosure, on the following courses, along the perimeter of a woven wire fence.</p> <p>From the point of beginning, N. 14°00' E., within AZ sovereign lands, 0.68 chs. dist. to a fence cor.; thence N. 86°05' E., within AZ sovereign lands, 7.74 chs. to a fence cor.; thence S. 2°38' E., within AZ sovereign lands, 2.02 chs. dist. to the medial line of the abandoned Colorado River; thence continuing S. 2°38' E., within CA sovereign lands, 2.04 chs. dist., to a fence cor., thence S. 79°19' W., within CA sovereign lands, 5.28 chs. dist., to a fence cor.; thence N. 80°07' W., within CA sovereign lands, 2.56 chs. dist., to a fence cor., thence N. 39°12' W., within CA sovereign lands, 1.46 chs. dist., to a fence cor., thence N. 14°00' E., within CA sovereign lands, 2.36 chs. dist., to the medial line of the abandoned Colorado River, and the point of beginning.</p>
7.55	<p>Medial point, within U.S. Bureau of Reclamation ware yard.</p> <hr/>

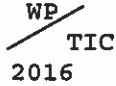
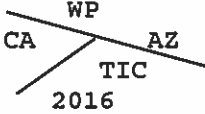
Informative Traverse of the Medial Line of the Abandoned Bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., CA, sec. 24, T. 17 N., R. 22 W., Gila and Salt River Mer., AZ, and sec. 19, T. 17 N., R. 21 W., Gila and Salt River Mer., AZ

CHAINS	
	S. 87°17' E., on the medial line of the abandoned Colorado River.
2.96	Medial point, within U.S. Bureau of Reclamation ware yard. <hr/>
	N. 76°26' E., on the medial line of the abandoned Colorado River.
2.34	Exit, U.S. Bureau of Reclamation ware yard, at easterly woven wire fence, bears S. 2°38' E. and N. 2°38' W.
7.42	Medial point. <hr/>
	N. 74°29' E., on the medial line of the abandoned Colorado River.
1.835	Intersect the S. boundary of the TIC easement, granted from the State of AZ to the U.S. Bureau of Reclamation, extends N. 70°37' W. The metes-and-bounds survey of the southerly boundary of the TIC is described in the field note record of T. 17 N., R. 22 W., Gila & Salt River Meridian, AZ, executed concurrently under this same group.
3.16	Intersect the S. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends, S. 70°37' E. Survey of the lease is hereinafter described.
4.485	Intersect the center line of TIC, 40 ft. wide at bottom, 15 ft. deep, extends S. 71° E. and N. 71° W.
5.81	Intersect the N. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends, S. 70°37' E. Survey of the lease is hereinafter described.
10.61	Medial point. <hr/>
	N. 63°17' E., on the medial line of the abandoned Colorado River,
8.38	Medial point. <hr/>
	N. 65°39' E., on the medial line of the abandoned Colorado River.
5.81	Intersect the N. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends N. 53°28' E. and S. 53°28' W. Survey of the lease is hereinafter described.
5.905	Intersect the N. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends N. 71°34' E. and S. 71°34' W. Survey of the lease is hereinafter described.
7.71	Medial point. <hr/>

Informative Traverse of the Medial Line of the Abandoned Bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Mer., CA, sec. 24, T. 17 N., R. 22 W., Gila and Salt River Mer., AZ, and sec. 19, T. 17 N., R. 21 W., Gila and Salt River Mer., AZ

CHAINS	
	N. 74°14' E., on the medial line of the abandoned Colorado River.
3.985	Intersect the N. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends S. 71°34' W. Survey of the lease is hereinafter described.
	Continuing measurement, identical with N. bdy. of the TIC lease.
8.47	Medial point.
	S. 84°22' E., on the medial line of the abandoned Colorado River, identical with the TIC lease.
1.50	Intersect the center line of TIC, 40 ft. wide at bottom, extends N. 72°36' E. and S. 72°36' W.
	Continuing measurement, identical with N. bdy. of TIC lease.
3.24	Intersect the S. boundary of the TIC lease, granted from the State of CA to the U.S. Bureau of Reclamation, extends S. 64°41' W. Survey of the lease is hereinafter described.
	thence, exit TIC lease.
5.675	Intersect the S. boundary of the easement, granted from the State of Arizona to the U. S. Bureau of Reclamation, under contract No. 14-66-300-1674. The easement is described in the field notes of T. 17 N., R. 21 W., executed concurrently under this same group.
5.77	Medial point, end of the survey of the medial line.
	<hr/> <p style="text-align: center;">Survey of the North Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34 T. 9 N., R. 23 E., San Bernardino Meridian, California</p> <hr/>
	<p>The following survey identifies the N. boundary of the lease granted to the U.S. Bureau of Reclamation from the State of California. Lease No. PRC 3335.9 allows for a 100 ft. strip of land, 50 ft. on either side of the center line of the Topock Inlet Canal (TIC), within California sovereign lands in the abandoned channel of the Colorado River.</p>
	Beginning at a point, N. 26°48' W., 50 ft. dist., from the center line of the TIC, on the present left bank of the Colorado River.
	From this point, the witness point, on the right bank, of the Colorado River, bet. secs. 28 and 33, bears N. 65°15' W., 14.85 chs. dist., hereinbefore described.
	N. 61°19' E., on the N. bdy. of TIC lease.

Survey of the North Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands, offset 50 ft. from center line of TIC.</p>
0.40	<p>Point selected for a witness point.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, 1/2 filled with concrete, with brass cap mkd.</p> <div style="text-align: center;">  <p>WP TIC 2016</p> </div> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket, set a steel guard post alongside the cor.</p>
4.70	<p>Center of road atop levee, graded and graveled, 30 ft. wide, bears N. 30° E. and S. 30° W.</p>
5.05	<p>Intersect, a battered barbed wire fence, bears S. 30° E. and N. 30° W., for 74 lks., to cor. of fences, thence N. 60° E.</p>
5.68	<p>Point for a witness point at intersection with the medial line of the abandoned Colorado River, identical with the line between the sovereign lands of the States of AZ and CA, bears S. 63°12' E. and N. 63°12' W.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <div style="text-align: center;">  <p>WP CA AZ TIC 2016</p> </div> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket, set a steel guard post alongside the cor.</p>
	<p>From this cor. point, the cor. at the intersection of the medial line of the abandoned Colorado River, with the N. easement line, granted from the State of AZ to the U.S. Bureau of Reclamation, bears N. 63°12' W., 0.915 chs. dist. Cor. is described in the field notes of the survey and resurvey of T. 17 N., R. 22 W., Gila & Salt River Meridian, AZ, executed concurrently under this same group.</p>
	<p>From the point of intersection of the medial line in the abandoned channel of the Colorado River, with a point 50 ft. easterly and normal with the center line of the Topock Inlet Canal, hereinbefore described.</p>

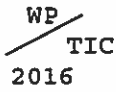
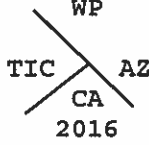
Survey of the North Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>From this point, the witness point at the intersection of the right bank of the abandoned Colorado River with the N. and S. center line of the NE 1/4 of sec. 33, bears S. 7°53' W., 4.61 chs. dist., hereinbefore described.</p>
	<p>S. 70°37' E., on the N. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
2.585	<p>Point for an angle point, offset 50 ft. northerly from the center line of the Topock Inlet Canal, not monumented.</p>
	<p>_____</p> <p>N. 70°37' E., on the N. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
	<p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
4.98	<p>Point for an angle point, offset 50 ft. northerly from the center line of the Topock Inlet Canal, not monumented.</p>
	<p>_____</p> <p>N. 58°47' E., on the N. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
	<p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
8.28	<p>Point for an angle point, offset 50 ft. northerly from the center line of the Topock Inlet Canal, not monumented.</p>
	<p>_____</p> <p>N. 53°28' E., on the N. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
	<p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
3.97	<p>Intersect the medial line of the abandoned channel of the Colorado River.</p>
	<p>Continuing within the abandoned bed of the Colorado River, through the state of Arizona sovereign lands.</p>

**Survey of the North Boundary of Topock Inlet Canal, within the
abandoned bed of the Colorado River, adjacent to secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS	
4.00	Point for an angle point, offset 50 ft. northerly from the center line of the Topock Inlet Canal, not monumented.
	<hr/> N. 71°34' E., on the N. bdy. of TIC lease.
	TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.
	Within the abandoned bed of the Colorado River, through the State of Arizona sovereign lands.
0.065	Intersect the medial line of the abandoned Colorado River.
	Continuing within the abandoned bed of the Colorado River, through the State of California sovereign lands.
5.84	Intersect the medial line of the abandoned Colorado River.
	From this point, a medial point, in the abandoned channel of the Colorado River bears S. 74°14' W., 3.985 chs. dist., hereinbefore described.
	<hr/> N. 74°14' E., on the N. bdy. of the TIC lease, identical with the medial line of the abandoned Colorado River.
4.485	A medial point in the abandoned Colorado River, hereinbefore described.
	<hr/> S. 84°22' E., on the N. bdy. of the TIC lease, identical with the medial line of the abandoned Colorado River.
1.52	Intersect the center line of the TIC lease, extends S. 72°36' W.
3.24	Intersect the S. boundary of the TIC lease, extends S. 64°41' W.
	End of N. bdy. of TIC lease.
	<hr/> <p align="center">Survey of the South Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34 T. 9 N., R. 23 E., San Bernardino Meridian, California</p> <hr/>
	<p>The following survey identifies the southerly boundary of the lease granted to the U.S. Bureau of Reclamation from the State of California. Lease No. PRC 3335.9 allows for a 100 ft. strip of land, 50 ft. on either side of the center line of the Topock Inlet Canal, within California sovereign lands in the abandoned channel of the Colorado River.</p>

Survey of the South Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>Beginning at a point, S. 26°48' E., 50 ft. dist., from the center line of the Topock Inlet Canal, on the present left bank of the Colorado River.</p> <p>From this point, the witness point, on the right bank, of the Colorado River, bet. secs. 28 and 33, bears N. 62°02' W., 16.09 chs. dist., hereinbefore described.</p> <p>N. 61°19' E., on the S. bdy. of TIC lease.</p> <p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
<p>0.50</p>	<p>Point selected for a witness point.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <div style="text-align: center;">  <p>WP TIC 2016</p> </div> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket, set a steel guard post alongside the cor.</p>
<p>4.70</p>	<p>Center of road atop levee, graded and graveled, 30 ft. wide, bears N. 30° E. and S. 30° W.</p>
<p>5.05</p>	<p>Intersect, a battered barbed wire fence, bears S. 30° E. and N. 30° W.</p>
<p>6.73</p>	<p>Point for a witness point at intersection with the medial line of the abandoned Colorado River, identical with the line between the sovereign lands of the States of AZ and CA, bears S. 63°12' E. and N. 63°12' W.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, anchored in a 2 1/2 gallon plastic bucket, half filled with concrete, with brass cap mkd.</p> <div style="text-align: center;">  <p>WP TIC AZ CA 2016</p> </div> <p>Deposit a magnet, in a white plastic case, beneath the plastic bucket, set a steel guard post alongside the cor.</p>

Survey of the South Boundary of Topock Inlet Canal, within the abandoned bed of the Colorado River, adjacent to secs. 33 and 34, T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS	
	<p>From this cor. point, the cor. at the intersection of the medial line of the abandoned Colorado River, with the S. easement line, granted from the State of AZ to the U.S. Bureau of Reclamation, bears S. 63°12' W., 0.92 chs. dist. Cor. is described in the field notes of the survey and resurvey of T. 17 N., R. 22 W., G. & S.R. Mer., AZ, executed concurrently under this same group.</p> <hr/>
	<p>From the point of intersection of the medial line in the abandoned channel of the Colorado River, with a point 50 ft. westerly and normal with the center line of the Topock Inlet Canal, hereinbefore described.</p>
	<p>From this point, the witness point at the intersection of the right bank of the abandoned Colorado River with N. and S. center line of the NE 1/4 of sec. 33, bears S. 26°27' E., 4.31 chs. dist., hereinbefore described.</p>
	<p>S. 70°37' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
5.29	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/>
	<p>N. 70°37' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
	<p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
5.67	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/>
	<p>N. 58°47' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
	<p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
8.52	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/>
	<p>N. 53°28' E., on the S. bdy. of TIC lease.</p>

**Survey of the South Boundary of Topock Inlet Canal, within the
abandoned bed of the Colorado River, adjacent to secs. 33 and 34,
T. 9 N., R. 23 E., San Bernardino Meridian, California**

CHAINS	
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p> <p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
3.83	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/> <p>N. 71°34' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p> <p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
7.95	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/> <p>N. 72°36' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p> <p>TIC follows a cut bank to the N. and a slough to the S., 2 to 3 chs. wide.</p>
4.54	<p>Point for an angle point, offset 50 ft. southerly from the center line of the Topock Inlet Canal, within slough, not monumented.</p> <hr/> <p>N. 64°41' E., on the S. bdy. of TIC lease.</p>
	<p>Within the abandoned bed of the Colorado River, through the State of California sovereign lands.</p>
0.55	<p>Intersect the medial line of the abandoned Colorado River, extends S. 84°22' E. and N. 84°22' W.</p> <p>End of S. bdy. of TIC lease.</p>
	<hr/> <p align="center">Retracement of a portion of the land description and survey in the NW 1/4 of section 33, made part of CV-98-4072, Superior Court, Arizona</p> <hr/>
	<p>The following retraces a portion of the land description and survey included within CV-98-4072, a civil lawsuit in the Superior Court of Arizona, entitled Van Vleet v. State of Arizona.</p>

Retracement of a portion of the land description and survey
in the NW 1/4 of section 33, made part of CV-98-4072,
Superior Court, Arizona

CHAINS	
	<p>Recorded in the Mohave County Recorder's Office Bk. 3134, P. 949. The survey and description, which in part, defines the 1952 medial line and the right bank of the abandoned channel of the Colorado River, in the NW 1/4 of section 33. The survey was executed by Chris N. Perez, California Licensed Land Surveyor No. 5169, for the California State Lands Commission. The preponderance of evidence, both physical and the 1949 aerial imagery, leads to the conclusion that the corner perpetuated for the witness point established in the 1961 BLM survey, at the intersection of the north and south center line of section 33 with the abandoned right bank of the Colorado River, was incorrectly located. It does not represent the right bank of the Colorado River prior to channelization, and is utilized for direction only.</p>
	<p>From the corner perpetuated for the witness point established in the 1961 BLM survey, at the intersection of the north and south center line of section 33 with the abandoned right bank of the Colorado River, as incorrectly located, hereinbefore described.</p>
	<p>From this cor., the Angle Point at the intersection of the N. and S. center line of sec. 33, with the abandoned right bank of the Colorado River as established in 2016, bears S. 0°17' W., 5.04 chs. dist., hereinbefore described.</p>
	<p>N. 87°28' W., within the abandoned bed of the Colorado River.</p>
3.73	<p>A rebar, 3/4 in. diam., firmly set, projecting 2 ins. above ground, with attached 2 ins. diam. aluminum cap, stamped CALIFORNIA STATE LAND COMMISSION.</p> <hr/>
	<p>N. 86°15' W., within the abandoned bed of the Colorado River.</p>
0.80	<p>Barbed wire fence, bears S. 30° E. and N. 30° W.</p>
1.35	<p>Graded road atop levee, 30 ft. wide, bears S. 30° E. and N. 30° W.</p>
3.68	<p>A rebar, 3/4 in. diam., firmly set, projecting 1 in. above ground, with attached 2 ins. diam. aluminum cap, stamped CALIFORNIA STATE LAND COMMISSION.</p> <hr/>
	<p>S. 89°06' W., on a rotated bearing, preserving the record angular relationship, within the abandoned bed of the Colorado River.</p>
3.38	<p>Point for angle point, at record dist., not monumented.</p>
	<p>Cor. position falls on the westerly edge of a graded road, about 10 lks. E. of the present left bank of the Colorado River, both bear S. 25° E. and N. 25° W.</p> <hr/>

T. 9 N., R. 23 E., San Bernardino Meridian, California

CHAINS

GENERAL DESCRIPTION

The land encompassed in this survey and resurvey is adjacent to the City of Needles, California. The channelized Colorado River, the separating line between the States of Arizona and California, divides section 33 in nearly equal parts. Entering the area surveyed about 13 chs. east of the corner common to sections 28, 29, 32 and 33, and exits near the E. 1/16 section corner common to sections 4 and 33, on the south boundary of the township. The right bank of the abandoned bed of the Colorado River is adjacent to sections 33 and 34. The left bank of the abandoned Colorado River is adjacent to section 24, Township 17 North, Range 22 West, Gila and Salt River Meridian, AZ. The Topock Inlet Canal is within the abandoned bed.

The majority of the area surveyed is considered sandy bottomlands, with dense stands of salt cedar and arrow weed. A small portion of uplands, out of the river floodplain is located in the southwest portion of section 33. The E. 1/2 of the NE 1/4 of section 33, is under cultivation. Substantial accretions have attached to sections 33 and 34.

The primary access is by way of a road atop a levee, which runs more or less parallel to the channelized Colorado River within the State of Arizona. Secondary access is provided by canal service roads and farm roads.

The mean magnetic declination of $11 \frac{3}{4}^{\circ}$ E. was derived from the United States National Oceanic and Atmospheric Administration, National Centers for Environmental Information, Geomagnetic Calculator, utilizing the most recent World Magnetic Model for the dates of survey.

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 28th day of April, 2016. I have dependently resurveyed a portion of the south boundary, a portion of the subdivisional lines, and the informative traverses of the 1883 right bank of the Colorado River through sections 33 and 34, subdivided section 33, performed the informative traverse and metes-and-bounds survey of the right bank of the abandoned channel of the Colorado River in sections 33 and 34, and the informative traverse of the medial line of the abandoned channel of the Colorado River adjacent to sections 33 and 34, performed the survey of the North and South boundaries of the Topock Inlet Canal lease within the abandoned channel of the Colorado River, retraced a portion of a land description made part of CV-98-4072, in the Superior Court of Arizona in and for the County of Mohave, Township 9 North, Range 23 East, San Bernardino Meridian, California., which are represented in the foregoing field notes as having been executed by me and under my direction. 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, 1973, and in specific manner described in the foregoing field notes.

JULY 28, 2017

(Date)

Gordon R. Bubel

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the south boundary, and a portion of the subdivisional lines, and the informative traverses of the 1883 right bank of the Colorado River through sections 33 and 34, the subdivision of section 33, the informative traverse and metes-and-bounds survey of the right bank of the abandoned channel of the Colorado River in sections 33 and 34, the informative traverse of the medial line of the abandoned channel of the Colorado River adjacent to sections 33 and 34, the survey of the North and South boundaries of the Topock Inlet Canal lease, within the abandoned channel of the Colorado River, a retracement of a portion of a land description made part of CV-98-4072, in the Superior Court of Arizona in and for the County of Mohave, Township 9 North, Range 23 East, San Bernardino Meridian, California., executed by Gordon R. Bubel, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/2/2017

(Date)

[Signature]
(Chief Cadastral Surveyor of Arizona)

~~CERTIFICATE OF TRANSCRIPT~~

~~I CERTIFY That the foregoing transcript of the field notes of the above described surveys in T. 9 N., R. 23 E., San Bernardino Meridian, California, is a true copy of the original field notes.~~

~~_____~~
(Date)

~~_____~~
(Chief Cadastral Surveyor of Arizona)