

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
THE BASE LINE AND
A PORTION OF THE SUBDIVISIONAL LINES,
AND THE SURVEY OF A METES-AND-BOUNDS SURVEY
IN SECTION 36
TOWNSHIP 1 NORTH, RANGE 24 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Geoffrey A. Graham, Cadastral Surveyor

Under Special Instructions dated August 24, 2010, approved August 24, 2010,
which provided for the surveys included under Group No. 1084, and
assignment instructions dated August 24, 2010.

Survey commenced August 30, 2010

Survey completed October 26, 2010

INDEX DIAGRAM

TOWNSHIP 1 NORTH RANGE 24 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the Base Line and a portion of the subdivisional lines and the survey of a metes-and-bounds survey in section 36, Township 1 North, Range 24 West, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this survey is as follows:

John A. Barry surveyed the Base Line, the east boundary, the subdivisional lines and meandered the Colorado River in 1902. In 1960 Robert C. Yundt resurveyed the Base Line in Range 24 West. In 1961 Richard D. Snider and Gerald F. Pittman resurveyed the Base Line. Leonard W. Murphy resurveyed a portion of the subdivisional lines. In 1981 Paul L. Reeves resurveyed a portion of the East boundary, subdivisional lines and a portion of the fixed left bank of the Colorado River.

This survey is to locate government Tract Number 40, identical with parcel 1, condemned by court order No. CIV. 5524-PHX., dated November 20, 1967. This parcel is also identified as Bureau of Reclamation parcel No. CC-A-2a and is detailed on Bureau of Reclamation map No. 423-300-438, dated March 31, 1964.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions, 2009, and the Special Instructions dated August 24, 2010, for Group Number 1084, Arizona.

The true meridian direction and length of all lines were determined by static and real time kinematic global positioning system observations using Trimble Navigation 5700 and 5800 model receivers.

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 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) AF9486 BLYT BLYTHE PGA STA, DL1884 AZYU CITY OF YUMA, and DI2239 P003 MOHAWKVALLAZ2006.

The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the southeast corner of the township, is as follows:

Latitude: 33°22'32.95" N.

Longitude: 114°41'31.40" W.

T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona

CHAINS

The NAD 83 (CORS96) (EPOCH: 2002), geographic position of the northwest corner of section 36, is as follows:

Latitude: 33°23'25.21" N. Longitude: 114°42'33.59" W.

The mean magnetic declination is 11 3/4° E.

**Dependent Resurvey of the Base Line,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

Restoring the resurvey executed by
Richard D. Snider and Gerald F. Pittman, in 1961

Beginning at the stan. cor. of Tps. 1 N. Rs. 23 and 24 W., monumented with an iron post 2 1/2 ins. diam., firmly set, 18 ins. below pavement, encased in a cast iron monument well, with brass cap mkd. T1N R24W R23W S36 S31 1960.

Cor. is located in Baseline Rd., 1 ft. S. of current centerline stripe. Road is 24 ft. wide, bears E. and W.

N. 89°57' W., on record course on the S. bdy. of sec. 36.

40.00 Record position for the 1/4 sec. cor. of sec. 36 only, falls on asphalt surface of Baseline Rd., 1 ft. S. of current centerline stripe, not monumented.

From this point, a rebar, 5/8 in. diam., firmly set, 2 ins. below asphalt road surface, with a brass cap, 1 3/4 ins. diam. mkd. LEMME ENG. INC. SIDLER LS 28232, established by Mark P. Sidler, Arizona R.L.S. No. 28232, bears S. 1°30' W., 3 lks. dist. This position was determined by improper procedure and is not utilized in the course of this survey.

49.91 Leave paved surface of Baseline Rd.

50.37 Point for witness point on the Base Line, determined at record bearing and distance from the stan. cor. of Tps. 1 N., Rs. 23 and 24 W., as detailed on Bureau of Reclamation map No. 423-300-438, dated March 31, 1964. This point functions as the southeast angle point on the boundary of Tract 40, identical with Bureau of Reclamation Parcel No. CC-A-2a.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.

**Dependent Resurvey of the Base Line,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>T 1 N R 24 W</p> <p>S 36</p> <hr style="width: 20%; margin: auto;"/> <p>S 2</p> <p>T 1 S R 24 W</p> <p>WP</p> <p>2010</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.</p> <p>Cor. is located 3 ft. S. of the S. edge of the asphalt pavement of Baseline Road.</p>
53.65	<p>Levee Rd., at entrance to the Cibola National Wildlife Refuge. Road is graveled 30 ft. wide, extending S. 30° W., and paved 27 ft. wide, extending N. 30° W.</p>
54.70	<p>Point for a witness point on the Base Line, E. of an abutment for the outflow of a drainage culvert for an agricultural drainage ditch.</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>
	<p>WP</p> <p>T 1 N R 24 W</p> <p>S 36</p> <hr style="width: 20%; margin: auto;"/> <p>S 2</p> <p>T 1 S R 24 W</p> <p>2010</p>
	<p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.</p>
55.08	<p>Top of agricultural drainage ditch, 1 ch. wide, flows W.</p>
64.30	<p>True point for the record position for the witness point, established by Robert C. Yundt, Cadastral Surveyor, in 1960, at intersection with the mean high water mark on the left bank of the Colorado River. There is no remaining evidence of the 1960 cor. Falls in agricultural drainage ditch where it is impracticable to establish a permanent monument. This true point functions as the southwest angle point on the boundary of Tract 40, identical with Bureau of Reclamation Parcel No. CC-A-2a.</p>

**Dependent Resurvey of the Base Line,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

This true point also functions as a meander cor. of the left bank of the last natural channel of the Colorado River.

From this true point, the point selected for a witness cor. to the meander cor. bears N. 1°52' W., 50 lks. dist.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, with brass cap mkd.

WC

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T 1 N R 24 W
  |   S 36
  |   _____
  |   S 2
MC ↓
  |   T 1 S R 24 W
  |   2010
  
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Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with do not disturb sign near.

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Paul L. Reeves, in 1981

From the cor. of secs. 25 30 31 and 36, on the E. bdy. of the Tp., monumented with an iron post, 2 1/2 ins. diam., firmly set, 22 ins. below grade, with brass cap mkd. T1N R24W R23W S25 S30 S36 S31 1981 1960.

Cor. is located in dirt road bet. a concrete lined irrigation ditch to the S. and a dirt drainage ditch to the N. All bear E. and W. Road is 15 ft. wide.

N. 89°59' W., bet. secs. 25 and 36.

39.99

The 1/4 sec. cor. of secs. 25 and 36, monumented with a rebar, 5/8 in. diam., firmly set, 4 ins. below grade, with a brass cap, 1 3/4 ins. diam., mkd. LEMME ENG. INC. SIDLER LS 28232, established by Mark P. Sidler, Arizona R.L.S. No. 28232. This is accepted as a careful and faithful reestablishment of the orig. cor. position.

Cor. is located in dirt road bet. a concrete lined irrigation ditch to the S. and a dirt drainage ditch to the N. All bear E. and W. Road is 15 ft. wide.

**Dependent Resurvey of a portion of the Subdivisional Lines,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>N. 89°59' W., beginning new measurement.</p>
29.08	<p>Witness point on line bet. secs. 25 and 36, monumented with an iron post, 2 1/2 ins. diam., severely corroded, 8 ins. below grade, with brass cap mkd. WP T1N R24W S25 S36 1981. This point functions as an angle point on the boundary of Tract 40, identical with Bureau of Reclamation Parcel No. CC-A-2a.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, underpinned by a galvanized steel sign post 5 1/2 ft. long, with brass cap mkd.</p> <p align="center"> WP T 1 N R 24 W S 25 <hr/> S 36 2010 </p> <p>Deposit a magnet, in a white plastic case, at the base and the rusted remains of the 28 ins. long iron post alongside of the stainless steel post.</p> <p>Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.</p> <p>Point is located left bank of agricultural drainage ditch, 4 ft. E. of the intersection of ditches, flowing from N. 10° E. and E., draining S. 10° W.</p>
30.09	<p>Right bank of agricultural drainage ditch, flows S. 10° W.</p>
32.80	<p>Levee Rd., 30 ft. wide, gravel, bearing N. 5° E. and 27 ft. wide asphalt paved, bearing S. At intersection with an unnamed road extending W.</p>
39.99	<p>The cor. of secs. 25, 26, 35 and 36, monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 6 ins. above grade, with brass cap mkd. T1N R24W S26 S25 S35 S36 1981.</p> <p>Cor. is located under an E. and W. wooden bridge, 2 ins. below lower bridge beam and 70 lks. E. of the left bank of the present channelized Colorado River, which bears N. and S.</p> <p>Add the marks 2010 to the W. facing edge of the brass cap.</p> <hr/> <p align="center">Restoring the survey executed by Leonard W. Murphy, in 1961</p> <hr/>

**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

A compass rule adjustment was performed on the description meander courses between the record positions of the two meander corners established on the line bet. secs. 35 and 36 by Leonard W. Murphy in 1961 and on the Base Line by Robert C. Yundt, in 1960. The eastern bdy. is defined by two intersecting arcs, determined at record arc length of the first and the record radius of the second.

From the meander cor. on the line bet. secs. 35 and 36, hereinbefore described.

S. 44°05' E., along the adjusted meanders of the left bank of the last natural channel of the Colorado River.

10.210 Point for angle point 1, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, underpinned with a galvanized steel sign post, 5 1/2 ft. long, with brass cap mkd.

T 1 N R 24 W
S 36 \ AP 1
2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

S. 33°21' E., on line 1-2.

10.665 Point for angle point 2, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 9 ins. below grade, with brass cap mkd.

T 1 N R 24 W
S 36 \ AP 2
2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

Point is located on W. side of dirt road along W. side of agricultural drainage ditch, 15 ft. wide, curving S. 15° E. and N. 10° W.

S. 18°41' E., on line 2-3.

4.149 Point for angle point 3, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 18 ins. below grade, underpinned with a galvanized steel sign post, 5 1/2 ft. long, with brass cap mkd.

T 1 N R 24 W
S 36 \ AP 3
2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

Point is located on E. side of dirt road along W. side of agricultural drainage ditch, 15 ft. wide, S. 15° E. and N. 15° W.

S. 14°18' E., on line 3-4.

4.513 Point for angle point 4, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 14 ins. below grade, with brass cap mkd.

T 1 N R 24 W
S 36 \ AP 4
2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

Point is located on W. side of dirt road along W. side of agricultural drainage ditch, 15 ft. wide, S. 20° E. and N. 20° W.

**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>S. 19°09' E., on line 4-5.</p> <p>3.745 Point for angle point 5, Tract 40.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, underpinned with a galvanized steel sign post, 5 1/2 ft. long, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T 1 N R 24 W</p> <p>S 36 } AP 5</p> <p>2010</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.</p> <p>Point is located mid-slope of ditch abandon on W. side of dirt road along W. side of agricultural drainage ditch, 15 ft. wide, S. 20° E. and N. 20° W.</p> <hr style="width: 20%; margin: 20px auto;"/> <p>S. 6°49' W., on line 5-6.</p> <p>5.480 Point for angle point 6, Tract 40.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T 1 N R 24 W</p> <p>S 36 / AP 6</p> <p>2010</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.</p> <p>Point is located on E. shoulder of Levee Rd., 15 ft. E. of edge of asphalt surface. Road is 24 ft. wide, bears S. 20° E. and N. 20° W.</p> <hr style="width: 20%; margin: 20px auto;"/> <p>S. 16°58' W., on line 6-7.</p> <p>6.043 Point for angle point 7, Tract 40.</p>
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**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, underpinned with a galvanized steel sign post, 5 1/2 ft. long, with brass cap mkd.

T 1 N R 24 W

S 36 / AP 7

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

Point is located 1 ch. E. of the water's edge of Sandy Cove, locally named Hippie Hole.

S. 20°22' W., on line 7-8.

4.434 Point for angle point 8, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, underpinned with a galvanized steel sign post, 5 1/2 ft. long, with brass cap mkd.

T 1 N R 24 W

S 36 \ AP 8

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

S. 14°32' E., on line 8-9.

11.435 Point for angle point 9, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., flush with the ground, with brass cap mkd.

T 1 N R 24 W

S 36 \ AP 9

2010

**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

Point is located on W. side of unimproved dirt road, 15 ft. wide, bears S. 35° E. and N. 30° W.

S. 1°52' E., along the adjusted meanders of the left bank of the last natural channel of the Colorado River.

1.222 The witness cor. for the meander cor. on the Base Line hereinbefore described.

1.722 True point for the meander cor. on the Base Line, hereinbefore described.

From the witness point on the Base Line, at the southeasterly angle point of Tract 40, hereinbefore described.

On a circular curve to the left having a central angle of 0°24'47" and a radius of 17350 ft. The chord of said arc bears N. 35°52' W., 1.896 chs. dist.

1.896 Point for angle point 10, Tract 40.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.

T 1 N R 24 W

AP 10 | S 36

2010

Deposit a magnet, in a white plastic case, at the base of the stainless steel post.

Set a galvanized steel sign post with Land Survey Monument sign, 54-9, nearby.

On a circular curve to the right having a central angle of 33°16'46" and a radius of 9260 ft. The chord of said arc bears N. 12°38' W., 80.353 chs. dist.

An agricultural drainage ditch follows this arc, 1 ch. wide.

**Metes-and-Bounds survey of Tract 40, in Section 36,
T. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona**

CHAINS

81.493

Witness point on line bet. secs. 25 and 36, at the northeasterly angle point of Tract 40, hereinbefore described.

GENERAL DESCRIPTION

This survey is located 2 miles W. of the community of Cibola, AZ and 22 miles S. of the city of Blythe, CA. Access is from the western most extension of Baseline Rd. and Levee Rd. There are multiple service roads from these that run along the current Colorado River and the agricultural fields and ditches.

The terrain is nearly level with an approximate elevation of 230 ft. above sea level. The land encompassed by this survey is covered in arrow weed in the flats and salt cedar along the waterlines of the river, cove and ditches. There are some cattails and bamboo growing in the shallows of the cove and ditch exit to the river. The soil along the ditches was observed to be destructively corrosive of iron monuments.

Sandy Cove, locally named Hippie Hole, was observed to be in recreational use every day while conducting this survey. Uses included watercraft launching, camping, fishing and swimming.

The mean magnetic declination of $11 \frac{3}{4}^{\circ}$ E. was derived from the National Geophysical Data Center's magnetic declination calculator, GEOMAG v6.0, utilizing the International Geomagnetic Reference Field model for years 2005 through 2010, for the dates of survey.

CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 24th day of August, 2010, I have dependently resurveyed the Base Line and a portion of the subdivisional lines and surveyed a metes-and-bounds survey in section 36, T. 1 N., R. 24 W., of the Gila and Salt River Meridian, in the State of Arizona, which are represented in the foregoing field notes as having been executed by me and under my direction. Said survey has been made in strict conformity with said special instructions, the Manual of Surveying Instructions, 2009, and in specific manner described in the foregoing field notes.

11/1/2010
(Date)

Geoffrey A. Graham
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of the Base Line and portion of the subdivisional lines and survey of a metes-and-bounds survey in section 36, T. 1 N., R. 24 W., Gila and Salt River Meridian, in the State of Arizona, executed by Geoffrey A. Graham, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

11/15/2010
(Date)

Stephen K. Hansen
(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. 1 N., R. 24 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~