

ORIGINAL

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

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF PORTIONS OF THE SUBDIVISIONAL LINES,
THE SUBDIVISION OF SECTION 30
AND METES-AND-BOUNDS SURVEYS OF PORTIONS OF THE
ADMINISTRATIVE BOUNDARY OF THE DAVIS-MONTHAN AIR FORCE BASE,
TOWNSHIP 14 SOUTH, RANGE 15 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Blas J. Urena, Cadastral Surveyor

Under Special Instructions dated January 4, 2013, approved January 4, 2013, which provided for the surveys included under Group No. 1111, and assignment instructions dated February 25, 2013.

Survey commenced January 16, 2013

Survey completed April 23, 2013

INDEX DIAGRAM

TOWNSHIP 14 SOUTH RANGE 15 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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the Administrative Boundary of the
Davis-Monthan Air Force BasePages 6-9

T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET

The following field notes describe the dependent resurvey of portions of the subdivisional lines, the subdivision of section 30 and metes-and-bounds surveys of portions of the administrative boundary of the Davis-Monthan Air Force Base, Township 14 South, Range 15 East, Gila and Salt River Meridian, Arizona.

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

Theodore F. White surveyed the East and South boundaries and Subdivisional Lines of Township 14 South, Range 14 East in 1872. Philip Contzen resurveyed the West and portion of the North boundaries and Subdivision Lines of Township 15 South, Range 15 East in 1895. Philip Contzen resurveyed the West and South boundaries and Subdivision Lines of Township 14 South, Range 15 East in 1897.

The survey was executed in accordance with the specifications as set forth in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, 2009, and the Special Instructions dated January 4, 2013, for Group Number 1111, 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, 5800 and R8 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 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 Position System (GPS) static observations post processed by National Geodetic Survey, Online Positioning User Service (OPUS), utilizing Continuously Operating Reference Stations (CORS) DF7063 COT2 CITY OF TUCSON 2, DN9197 AZBR KBC LIBRARY, DM2672 PIMA COMM COLLEGE, DM7129 AZVA SYCOMORE ELEM SCH, DL7716 P014 SAHUARITA_AZ2007, DM7127 AZAM SOPORI ELEM SCH, DN6063 AZST SAN TAN PARK and DF5763 AZGB GILA COUNTY. The NAD 83 (CORS2011) (EPOCH 2010.0000), geographic position of the South 1/16 section corner of section 30 only, Township 14 South, Range 15 East, is as follows:

Latitude: 32°10'51.844" N. Longitude: 110°51'28.774" W.

The NAD 83 (CORS2011) (EPOCH 2010.0000) geographic position of the section corner of sections 5, 6, 31 and 32 of Township 14 South, Range 15 East, is as follows:

T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET	
	<p>Latitude: 32°09'46.197" N. Longitude: 110°50'27.116" W.</p> <p>The mean magnetic declination is 10° E.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a portion of the Subdivisional Lines, T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">Restoring the resurvey executed by Philip Contzen, in 1897</p> <hr/> <p>Beginning at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented with an aluminum cap, 3 ins. diam., in casting, 6 ins. below surface, mkd. ADOT HIGHWAY DIV. 19. This is accepted as the best available evidence of the orig. cor.</p> <p>N. 0°17' W., bet. secs. 31 and 32.</p>
2650.0	Point for the 1/4 sec. cor. of secs. 31 and 32, at proportionate dist., there is no remaining evidence of the orig. cor., not monumented.
5300.0	The cor. of secs. 29, 30, 31 and 32, monumented with a brass cap, 2 ins. diam., flush in pavement, mkd. with a dimple. This is accepted as the best available evidence of the orig. cor.
	<hr/> <p>N. 89°54' W., bet. secs. 30 and 31.</p>
1323.4	From this point, a rebar, 3/4 in. diam., flush with the ground, bent, the top 4 ins., straighten the rebar and reset 3 ins. below ground, bears N. 0°55' E., 0.6 ft. dist.
2646.2	The 1/4 sec. cor. of secs. 30 and 31, monumented with a brass cap, 2 ins. diam., in concrete, 2 ins. above the ground, mkd. LS 4785. This is accepted as the best available evidence of the orig. cor.
	<hr/> <p>N. 89°57' W., beginning new measurement, continuing on the line bet. secs. 30 and 31, identical with a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
2.0	A brass cap, 2 ins. diam., in concrete, 1 in. below the ground, mkd. COT RLS 23956.
1314.4	The W. 1/16 sec. cor. of secs. 30 and 31, monumented with a brass cap, 2 ins. diam., in concrete, flush with the ground, mkd. C T RLS 23956. This is accepted as a careful and faithful determination of the cor. position.

Dependent Resurvey of a portion of the Subdivisional Lines,
T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET	
	From this cor., a railroad spike in concrete, bears N 4° E., 0.5 ft. dist.
1389.5	A rebar, 1/2 in. diam., 1 in. below ground, this rebar falls, N. 27°39' E., 3.0 ft. dist., from a corner of fences of the Davis-Monthan Air Force Base, 8 ft. high, chain link, bears N., S. and W.
1979.0	Point for AP 1, sec. 30, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, hereinafter described. Thence continuing on the line bet. secs. 30 and 31.
2633.5	The cor. of secs. 30 and 31 only, T. 14 S., R. 15 E., at proportionate dist., there is no remaining evidence of the orig. cor., not monumented.
<hr/> Subdivision of Section 30, T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona <hr/>	
	From the W. 1/16 sec. cor. of secs. 30 and 31. N. 0°09' E., on the N. and S. center line of the SW 1/4 of sec. 30.
1326.4	The SW 1/16 cor. of sec. 30, monumented with a brass cap, 2 ins. diam., in concrete, 10 ins. diam., flush with the ground, mkd. one dimple. This is accepted as a careful and faithful determination of the cor. position.
<hr/>	
659.0	N. 89°52' W., beginning new measurement, on the line bet. lots 3 and 4, of sec. 30. Point for AP 2, sec. 30, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, on the line bet. lots 3 and 4, hereinafter described.
1316.7	The S. 1/16 sec. cor. of section 30 only T. 14 S., R. 15 E. on the W. bdy. of the Tp., monumented with a brass cap, 2 ins. diam., in concrete, mkd. COT 2011 RLS 30352. Brass cap established by Michael L. Demple Arizona R.L.S. No. 21762, and perpetuated by John A. Gentry, Arizona R.L.S. No. 30352, in 2011, according to Record of Survey Sequence # 20112000847, on file at Pima County Recorder's Office. This is accepted as a careful and faithful determination of the cor. position.

Metes-and-Bounds Survey of Portions of the
Administrative Boundary of the Davis-Monthan Air Force Base,
T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET	
	<p>In Lot 4 of Section 30</p> <hr style="width: 20%; margin: auto;"/>
	<p>From AP 1, sec. 30, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, on the line bet. secs. 30 and 31, monumented with a rebar, 1/2 in. diam., 18 ins. long, 2 ins. below the ground. This is accepted as a careful and faithful determination of the cor. position.</p>
	<p>At the corner point</p>
	<p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 27 ins. in the ground, with brass cap mkd.</p>
	<p>T 14 S R 15 E DMAFB S 30 AP 1</p>
	<p>2013</p>
	<p>Deposit a magnet, in a white plastic case and the rebar, at the base of the stainless steel post.</p>
	<p>From this cor. point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears S. 3°21' W., 2.6 ft. dist., fence bears N. and E.</p>
	<p>From the same cor. point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears S. 3°01' E., 3.7 ft. dist., fence bears N., S. and W.</p>
	<p>N. 0°24' E., on a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
1.4	<p>A rebar, 1/2 in. diam., 1 in. below ground, with a tag, mkd. RLS 26058.</p>
1252.2	<p>A rebar, 1/2 in. diam., 4 ins. below ground, with a tag, mkd. RLS 26058.</p>
1252.4	<p>A rebar, 1/2 in. diam., 4 in. below ground.</p>
1327.2	<p>Point for AP 2, sec. 30, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, on the line bet. lots 3 and 4.</p>
	<p>Set a mag nail, 2 1/2 ins. long, flush with pavement, with a brass washer, 1 1/2 ins. diam., mkd. BLM 2013.</p>

**Metes-and-Bounds Survey of Portions of the
Administrative Boundary of the Davis-Monthan Air Force Base,
T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona**

FEET	
	<p>The cor. falls, on a paved bike path, 10 ft. wide, 3 ft. S. of the northern edge.</p> <p>From this cor. point, an angle point on a fence, chain link, 8 ft. high, bears S. 8°11' E., 76.4 ft. dist., fence bears E. and S.</p> <p>From the same cor. point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears S. 0°25' W., 76.8 ft. dist., fence bears N., S. and W.</p> <hr/> <p style="text-align: center;">In the NE 1/4 and the SE 1/4 of Section 31</p> <hr/> <p>From AP 1, sec. 31, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, on the S. bdy. of the Tp., monumented with a mag nail, in pavement, with a brass washer, 1 1/2 ins. diam., mkd. BLM 2013.</p> <p>From this cor. point, the cor. of secs. 5, 6, 31 and 32, bears S. 89°54' E., 75.0 ft. dist., monumented with an aluminum cap, 3 ins. diam., in casting, 6 ins. below surface, mkd. ADOT HIGHWAY DIV. 19.</p> <p>From the same cor. point, the Tps. cor. of Tps. 14 and 15 S., Rs. 14 and 15 E., bears N. 89°54' W., 5195.9 ft. dist., monumented with, a stainless steel post, 2 1/2 ins. diam., firmly set, flush with pavement, with brass cap mkd. T14S R14E R15E S36 S31 S1 S6 T15S 2013.</p> <p>N. 0°17' W., on a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
2650.0	<p>Point for AP 2, sec. 31, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, on the E. and W. center line of sec. 31.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 25 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 14 S R 15 E</p> <p style="text-align: center;">DMAFB </p> <p style="text-align: center;">AP 2 S 31</p> <p style="text-align: center;">2013</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p>

**Metes-and-Bounds Survey of Portions of the
Administrative Boundary of the Davis-Monthan Air Force Base,
T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona**

FEET	
	<p>The cor. falls, 0.9 ft. E. of the fence of the Davis-Monthan Air Force Base, the fence bears N. and S.</p> <p>From this cor. point, the 1/4 sec. cor. of secs. 31 and 32, bears S. 89°55' E., 75.0 ft. dist., hereinbefore described.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°17' W., continuing on a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
2575.0	<p>Point for AP 3, sec. 31, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base, monumented with an aluminum post, 2 1/2 ins. diam., 31 ins. long, with an aluminum cap, 3 1/4 ins. diam., mkd. CORPS OF ENGINEERS U. S. ARMY DM 84-1 1984 LOS ANGELES DISTRICT. This is accepted as a careful and faithful determination of the cor. position.</p> <p>At the cor. point</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 style="text-align: center;">T 14 S R 15 E</p> <div style="text-align: center;">  <p style="margin-left: 100px;">S 31</p> <p style="margin-left: 100px;">AP 3</p> <p style="margin-left: 100px;">DMAFB</p> </div> <p style="text-align: center;">2013</p> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <p>Bury the aluminum post with the aluminum cap, inverted alongside the stainless steel post.</p> <p>The cor. falls, N., 2.0 ft. dist., from a Carsonite post.</p> <p>From this cor. point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears S. 37°19' W., 1.8 ft. dist., fence bears S. and W.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°54' W., continuing on a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
726.4	<p>Intersect the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high.</p> <p>From this point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears S., 1.0 ft. dist., fence bears N. and E.</p>

Metes-and-Bounds Survey of Portions of the
 Administrative Boundary of the Davis-Monthan Air Force Base,
 T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET	<p>From the same point, an angle point on the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, bears N., 34.9 ft. dist., fence bears S. and W.</p>
2571.0	<p>Point for AP 4, sec. 31, of the metes-and-bounds survey of portions of the administrative boundary of the Davis-Monthan Air Force Base.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 33 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin: 10px 0;"> <p>T 14 S R 15 E</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;">DMAFB</div> <div style="border-left: 1px solid black; border-bottom: 1px solid black; padding: 5px;">S 31</div> </div> <p>AP 4</p> <p>2013</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 0°24' W., continuing on a portion of the administrative boundary of the Davis-Monthan Air Force Base.</p>
34.5	<p>Intersect the fence of the Davis-Monthan Air Force Base, chain link, 8 ft. high, the fence bears E. and W.</p>
75.0	<p>The 1/4 cor. of secs. 30 and 31, hereinbefore described.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr style="width: 80%; margin: 10px auto;"/> <p>Part of the Davis-Monthan Air Force Base is located in the southwest quadrant of the township, Davis-Monthan Air Force Base is located within the city limits, and approximately 5 miles southeast of downtown, Tucson, Arizona.</p> <p>The area surveyed and resurveyed within T. 14 S., R. 15 E., consist of nearly level terrain. Kolb Road traverses part the township in a north and south directions, Escalante Road traverses part of the township in an east and west directions.</p> <p>The mean magnetic declination of 10° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2010 for the dates of survey.</p> <hr style="width: 80%; margin: 10px auto;"/>

T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

FEET

Composite Description of the Administrative Boundary
of the Davis-Monthan Air Force Base,
T. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona

The following is for informational purposes only.

Beginning at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp.

thence N. 89°54' W., 75.0 ft. dist., to Angle Point 1, sec. 31, on the S. bdy. of the Tp;

thence N. 0°17' W., 2650.0 ft. dist., to Angle Point 2, sec. 31;

thence N. 0°17' W., 2575.0 ft. dist., to Angle Point 3, sec. 31;

thence N. 89°54' E., 2571.0 ft. dist., to Angle Point 4, sec. 31;

thence N. 0°24' W., 75.0 ft. dist., on the N. and S. center line of sec. 31, to the 1/4 cor. of secs. 30 and 31.

thence N. 89°57' W., 1314.4 ft. dist., on the line bet. secs. 30 and 31, to the W. 1/16 sec. cor. of secs. 30 and 31.

thence N. 89°57' W., 664.6 ft. dist., continuing on the line bet. secs. 30 and 31, to Angle Point 1, sec. 30;

thence N. 0°24' E., 1327.2 ft. dist., to Angle Point 2, sec. 30, on the E. and W. center line of the SW 1/4 of sec. 30.

thence N. 89°52' W., 657.7 ft. dist., on the E. and W. center line of the SW 1/4 of sec. 30, to the S. 1/16 sec. cor. of sec. 30 only, T. 14 S., R. 15 E., on the W. bdy. of the Tp.

CERTIFICATE OF SURVEY

I, Blas J. Urena, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 4th day of January, 2013, I have dependently resurveyed portions of the subdivisional lines, subdivided section 30 and performed metes-and-bounds surveys of portions of the administrative boundary of the Davis-Monthan Air Force Base, T. 14 S., R. 15 E., 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 for the Survey of the Public Lands of the United States, 2009, and in specific manner described in the foregoing field notes.

8/01/2013

(Date)

Blas J. Urena

(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of a dependent resurvey portions of the subdivisional lines, the subdivision of section 30 and metes-and-bounds surveys of portions of the administrative boundary of the Davis-Monthan Air Force Base, T. 14 S., R. 15 E., Gila and Salt River Meridian, in the State of Arizona, executed by Blas J. Urena, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

8/07/2013

(Date)

Stephen H. 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. 14 S., R. 15 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~