

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF
THE SOUTH BOUNDARY,
TOWNSHIP 11 SOUTH, RANGE 16 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA

EXECUTED BY

Daniel L. Maxey, Cadastral Surveyor

Under Special Instructions dated November 3, 2006, approved November 3, 2006, which provided for the surveys included under Group No. 1011, and assignment instructions dated November 3, 2006.

Survey commenced November 18, 2006

Survey completed November 18, 2006

INDEX DIAGRAM

TOWNSHIP 11 SOUTH RANGE 16 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
6	6	5	5	4	4

T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the south boundary, Township 11 South, Range 16 West, Gila and Salt River Meridian, Arizona.

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

Benjamin J. Kinsey surveyed the south boundary, in 1941.

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, 1973, and the Special Instructions dated November 3, 2006, for Group No. 1011, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 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 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), P003 MOHAWKVALLAZ2006 CORS ARP, AZBK MCDOT BUCKEYE CORS ARP and COT1 TUCSON CORS ARP. The NAD 83 (CORS96)(EPOCH:2002), geographic position of the corner of Townships 11 and 12 South, Ranges 15 and 16 West, is as follows:

Latitude: 32°25'06.64" N. Longitude: 113°51'32.71" W.

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

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
Benjamin J. Kinsey, in 1941

Beginning at the cor. of Tps. 11 and 12 S., Rs. 15 and 16 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 9 ins. above ground, with brass cap mkd. T11S R16W R15W S36 S31 S1 S6 T12S 1941.

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>With an accessory mound of stone, 3 ft. base, 1 1/2 ft. high, S. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks 2006 to the brass cap.</p> <p>N. 89°54' W., on the S. bdy. of the Tp.</p>
39.99	<p>The 1/4 sec. cor. of secs. 1 and 36, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. 1/4 S36 S1 1941.</p> <p>With an accessory mound of stone, 2 ft. base, 1 ft. high, N. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°54' W., beginning new measurement.</p>
39.97	<p>The cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above ground, with brass cap mkd. T11S R16W S35 S36 S2 S1 T12S 1941.</p> <p>With an accessory mound of stone, 2 ft. base, 1 ft. high, W. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks 2006 to the brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°54' W., on the S. bdy. of the Tp.</p>
39.97	<p>The 1/4 sec. cor. of secs. 2 and 35, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above ground, in a collar of stone, with brass cap mkd. 1/4 S35 S2 1941.</p> <p>With an accessory mound of stone, 2 ft. base, 1 ft. high, N. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 89°54' W., beginning new measurement.</p>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona**

CHAINS	
40.01	<p>The cor. of secs. 2, 3, 34 and 35, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above ground, with brass cap mkd. T11S R16W S34 S35 S3 S2 T12S 1941.</p> <p>With an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>N. 89°53' W., on the S. bdy. of the Tp.</p>
39.95	<p>The 1/4 sec. cor. of secs. 3 and 34, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. 1/4 S34 S3 1941.</p> <p>With an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr/> <p>N. 89°53' W., beginning new measurement.</p>
39.96	<p>The cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 10 ins. above ground, with brass cap mkd. T11S R16W S33 S34 S4 S3 T12S 1941.</p> <p>With an accessory mound of stone, 3 ft. base, 1 1/2 ft. high, W. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>N. 89°56' W., on the S. bdy. of the Tp.</p>
40.00	<p>The 1/4 sec. cor. of secs. 4 and 33, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above ground, with brass cap mkd. 1/4 S33 S4 1941.</p> <p>With an accessory mound of stone, 3 ft. base, 2 ft. high, N. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 89°54' W., beginning new measurement.</p>
39.94	<p>The cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 15 ins. above ground, with brass cap mkd. T11S R16W S32 S33 S5 S4 T12S 1941.</p> <p>With an accessory mound of stone, 2 1/2 ft. base, 1 ft. high, W. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign to the S.</p> <p>Add the marks 2006 to the brass cap.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 89°56' W., on the S. bdy. of the Tp.</p>
39.99	<p>The 1/4 sec. cor. of secs. 5 and 32, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with brass cap mkd. 1/4 S32 S5 1941.</p> <p>With a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign and a U.S. Department of Interior, Fish and Wildlife carsonite sign to the S.</p> <p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 89°56' W., beginning new measurement.</p>
39.97	<p>The cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp., monumented with an iron post, 2 ins. diam., firmly set, projecting 18 ins. above ground, in a supporting mound of stone, 3 1/2 ft. base, 15 ins. high, with brass cap mkd. T11S R16W S31 S32 S6 S5 T12S 1941.</p> <p>With a steel fence post S. of cor.</p> <p>Add the marks 2006 to the brass cap.</p> <hr style="width: 20%; margin: auto;"/> <p>S. 89°54' W., on the S. bdy. of the Tp.</p>
39.95	<p>The 1/4 sec. cor. of secs. 6 and 31, on the S. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. 1/4 S31 S6 1941.</p>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>With an accessory mound of stone, 2 ft. base, 1 ft. high, N. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign and a U.S. Department of Interior, Fish and Wildlife carsonite sign to the S.</p> <p>Add the marks T11S R16W T12S 2006 to the brass cap.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 89°59' W., beginning new measurement.</p>
37.96	<p>The cor. of Tps. 11 and 12 S., Rs. 16 and 17 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 13 ins. above ground, with brass cap mkd. T11S R17W R16W S36 S31 S1 S6 T12S 2006 1941.</p> <p>With an accessory mound of stone, 3 ft. base, 2 ft. high, S. of cor., and with a steel fence post with an attached, U.S. Department of Agriculture, Biological Survey sign and two U.S. Department of Interior, Fish and Wildlife carsonite signs to the S.</p> <hr style="width: 60%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr style="width: 60%; margin: 10px auto;"/> <p>The purpose of this survey is to identify the boundary of the Barry M. Goldwater Range, managed by the United States Marine Corps Air Station, Yuma. The general area is located 36 miles south of the community of Tacna, AZ. on the boundary between the Barry M. Goldwater Range and the Cabeza Prieta Wilderness and National Wildlife Refuge. Access is limited to one graded road entering from the NE.</p> <p>Elevations for the area range between 900 ft. above sea level in the south portion of the township to the prominent Cabeza Prieta Mountains just south of the Tp. rising to approximately 2600 ft. The terrain consists of gently rolling soft sand with scant vegetation, broken with many shallow sandy washes, draining to the north from the base of the Cabeza Prieta Mountain range. Vegetation is primarily creosote, paloverde and other plants typical of the lower Sonoran Desert. The area is the habitat of the endangered flat tailed horned lizard, none of which were observed in the course of this survey.</p> <p>The mean magnetic declination of 11 3/4° 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.</p> <hr style="width: 60%; margin: 10px auto;"/>

CERTIFICATE OF SURVEY

I, Daniel L. Maxey, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 3rd day of November, 2006, I have dependently resurveyed the south boundary, Township 11 South, Range 16 West, Gila and Salt River Meridian, 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 Instructions for the Survey of the Public Lands of the United States, and in specific manner described in the foregoing field notes.

6-28-07
(Date)

Daniel L. Maxey
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of the south boundary, Township 11 South, Range 16 West, Gila and Salt River Meridian, Arizona, executed by Daniel L. Maxey, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

July 9, 2007
(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. 11 S., R. 16 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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