

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 14 WEST,**  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Geoffrey A. Graham, Cadastral Surveyor**

Under Special Instructions dated November 3, 2006, approved November 3, 2006, which provided for the surveys included under Group No. 1009, and assignment instructions dated November 3, 2006.

**Survey commenced November 7, 2006**

**Survey completed November 7, 2006**

**INDEX DIAGRAM**

TOWNSHIP 11 SOUTH                      RANGE 14 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. 14 W., Gila and Salt River Meridian, Arizona**

CHAINS

The following field notes describe the dependent resurvey of the south boundary, Township 11 South, Range 14 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. 1009, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic and fast static 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 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) AZBK MCDOT BUCKEYE CORS ARP, AZMO MARICOPA CORS ARP and SRP1 SALT RIVER PROJEC CORS ARP. The NAD 83 (CORS96)(EPOCH:2002), geographic position of the corner of Townships 11 and 12 South, and Ranges 13 and 14 West, is as follows:

Latitude: 32°25'06.29" N.                      Longitude: 113°39'16.84" W.

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

---

**Dependent Resurvey of the South Boundary,  
T. 11 S., R. 14 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Restoring the survey executed by Benjamin J. Kinsey, in 1941</p> <hr/>
	<p>Beginning at the cor. of Tps. 11 and 12 S., Rs. 13 and 14 W., monumented with a brass tablet, 3 1/2 ins. diam., firmly cemented flush in a granite outcrop, 20 X 20 X 13 ft., with top mkd. T11S R14W R13W S36 S31 S1 S6 T12S 1941 2006, with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p>
	<p>N. 89°57' W., bet. secs. 1 and 36, ascending over the point of the Sierra Pinta Mountains.</p>
40.01	<p>The 1/4 sec. cor. of secs. 1 and 36, monumented with an iron post, 1 in. diam., firmly set, flush in a supporting mound of stone, 4 ft. base, 2 1/2 ft. high, with brass cap mkd. S36 1/4 S1 1941, with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/>
	<p>N. 89°58' W., beginning new measurement.</p>
39.98	<p>The cor. of secs. 1, 2, 35 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T11S R14W S35 S36 S2 S1 T12S 1941, with an accessory mound of stone, 2 ft. base, 1 ft. high, W. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/>
	<p>N. 89°58' W., bet. secs. 2 and 35, gently ascending over nearly level desert.</p>
39.99	<p>The 1/4 sec. cor. of secs. 2 and 35, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. S35 1/4 S2 1941, with an accessory mound of stone, 2 ft. base, 1 ft. high, N. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/>
	<p>N. 89°57' W., beginning new measurement.</p>

**Dependent Resurvey of the South Boundary,  
T. 11 S., R. 14 W., Gila and Salt River Meridian, Arizona**

CHAINS	
39.97	<p>The cor. of secs. 2, 3, 34 and 35, monumented with an iron post, 2 ins. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. T11S R14W S34 S35 S3 S2 T12S 1941, with an accessory mound of stone, 2 ft. base, 1 ft. high, W. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>West, bet. secs. 3 and 34, continuing ascent over nearly level terrain, broken with small washes.</p>
39.98	<p>The 1/4 sec. cor. of secs. 3 and 34, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. S34 1/4 S3 1941, with an accessory mound of stone, 1 1/2 ft. base, 1 ft. high, N. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/> <p>N. 89°59' W., beginning new measurement.</p>
39.99	<p>The cor. of secs. 3, 4, 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. T11S R14W S33 S34 S4 S3 T12S 1941, with an accessory mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>N. 89°57' W., bet. secs. 4 and 33, gently ascending over nearly level desert.</p>
39.98	<p>The 1/4 sec. cor. of secs. 4 and 33, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. S33 1/4 S4 1941, with an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, N. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/> <p>N. 89°58' W., beginning new measurement.</p>

**Dependent Resurvey of the South Boundary,  
T. 11 S., R. 14 W., Gila and Salt River Meridian, Arizona**

CHAINS	
40.00	<p>The cor. of secs. 4, 5, 32 and 33, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. T11S R14W S32 S33 S5 S4 T12S 1941, with an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>N. 89°58' W., bet. secs. 5 and 32, continuing gentle ascent.</p>
39.98	<p>The 1/4 sec. cor. of secs. 5 and 32, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. S32 1/4 S5 1941, with an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, N. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/> <p>S. 89°59' W., beginning new measurement.</p>
40.01	<p>The cor. of secs. 5, 6, 31 and 32, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. T11S R14W S31 S32 S6 S5 T12S 1941, with an accessory mound of stone, 2 1/2 ft. base, 1 1/2 ft. high, W. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks 2006 to the brass cap.</p> <hr/> <p>N. 89°59' W., bet. secs. 6 and 31, continuing ascent over nearly level desert, broken by shallow washes.</p>
39.95	<p>The 1/4 sec. cor. of secs. 6 and 31, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above the ground, with brass cap mkd. S31 1/4 S6 1941, with an accessory mound of stone, 2 ft. base, 1 ft. high, N. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.</p> <p>Add the marks T11S R14W T12S 2006 to the brass cap.</p> <hr/> <p>N. 89°56' W., beginning new measurement.</p>

**Dependent Resurvey of the South Boundary,  
T. 11 S., R. 14 W., Gila and Salt River Meridian, Arizona**

## CHAINS

38.48

The cor. of Tps. 11 and 12 S., Rs. 14 and 15 W., monumented with the rusted remains of an iron post, 18 ins. long, 3 ins. diam., firmly set, 8 ins. below the ground, filled with concrete, with the upper portion, 18 ins. long, lying loose alongside, with brass cap mkd. T11S R15W R14W S36 S31 S1 S6 T12S 1941, with an accessory mound of stone, 3 ft. base, 2 ft. high, S. of the cor., and with a steel sign post with an attached U.S. Department of Agriculture Biological Survey sign set nearby.

At the corner point

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

T 11 S	
R 15 W	R 14 W
S 36	S 31
S 1	S 6
T 12 S	

2006

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

---

GENERAL DESCRIPTION

---

The purpose of this survey was to identify the boundary of that portion of the Barry M. Goldwater Military Reservation, managed by the Marine Corps Air Station, Yuma. The Cabeza Prieta Wilderness and National Wildlife Refuge, is the S. bdy. of this project. This survey is located 25 miles southeast of the small community of Tacna AZ, and 28 miles southeast of the community of Wellton. Access to the easterly portion of this survey can be reached by turning south off of Interstate 8 on an unidentified dirt road, leading to the Cabeza Prieta Wilderness and National Wildlife Refuge, the westerly portion can be reached by an unimproved road southerly of Wellton. The majority of the points for this survey are reached by cross country travel.

This project is nearly level, with elevations for the area ranging between 750 and 800 ft. above sea level. There is a gradual rise from east to west across the survey. The vegetation is typical of the lower Sonoran Desert, with creosote and scattered grasses on the open ground and ironwood and mesquite along the drainages.

**T. 11 S., R. 14 W., Gila and Salt River Meridian, Arizona**

CHAINS

The mean magnetic declination of  $11\ 3/4^\circ$  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 the survey.

---



CERTIFICATE OF SURVEY

I, Geoffrey A. Graham, 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, T. 11 S., R. 14 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 Instructions for the Survey of the Public Lands of the United States, 1973, and in specific manner described in the foregoing field notes.

8-16-07  
(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 south boundary, T. 11 S., R. 14 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.

9/18/07  
(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. 14 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~\_\_\_\_\_  
(Date)~~

~~\_\_\_\_\_  
(Chief Cadastral Surveyor of Arizona)~~