

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 15 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. 1010, and assignment instructions dated November 3, 2006.

Survey commenced November 18, 2006

Survey completed November 18, 2006

INDEX DIAGRAM

TOWNSHIP 11 SOUTH RANGE 15 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
7	6	5	5	4	4

T. 11 S., R. 15 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the south boundary of Township 11 South, Range 15 West, Gila and Salt River Meridian, Arizona.

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

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

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. 1010, Arizona.

The true meridian direction and length of 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 survey was 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, Ranges 14 and 15 West, is as follows:

Latitude: 32°25'06.46" N. Longitude: 113°45'25.10" W.

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

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 15 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. 14 and 15 W., monumented with a stainless steel post, 2 1/2 ins. diam., firmly set, projecting 1 in. above the ground, with brass cap mkd. T11S R15W R14W S36 S31 S1 S6 T12S 2006, 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.</p> <p>N. 89°59' W., bet. secs. 1 and 36.</p> <p>Gently ascending over nearly level desert, broken by shallow washes.</p>
40.00	<p>The 1/4 sec. cor. of secs. 1 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 3 ins. above ground, with brass cap mkd. 1/4 S36 S1 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 R15W 2006 to the brass cap.</p> <hr/> <p>S. 89°57' W., beginning new measurement.</p>
39.95	<p>The cor. of secs. 1, 2, 35 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 12 ins. above ground, with brass cap mkd. T11S R15W 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°56' W., bet. secs. 2 and 35.</p> <p>Continuing ascent over nearly level terrain.</p>
39.95	<p>The 1/4 sec. cor. of secs. 2 and 35, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. 1/4 S35 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 R15W 2006 to the brass cap.</p> <hr/>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 15 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	N. 89°54' W., beginning new measurement.
40.03	<p>The cor. of secs. 2, 3, 34 and 35, monumented with an iron post, 2 ins. diam., firmly set, projecting 13 ins. above ground, with brass cap mkd. T11S R15W 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>S. 89°58' W., bet. secs. 3 and 34.</p> <p>Gently ascending over nearly level desert, broken by shallow washes.</p>
39.91	<p>The 1/4 sec. cor. of secs. 3 and 34, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. 1/4 S34 S3 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 R15W 2006 to the brass cap.</p> <hr/> <p>N. 89°58' W., beginning new measurement.</p>
39.97	<p>The cor. of secs. 3, 4, 33 and 34, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, with brass cap mkd. T11S R15W S33 S34 S4 S3 T12S 1941, with an accessory mound of stone, 2 ft. base, 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.</p> <p>Continuing ascent over nearly level terrain.</p>
39.99	<p>The 1/4 sec. cor. of secs. 4 and 33, monumented with an iron post, 1 in. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. 1/4 S33 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 R15W 2006 to the brass cap.</p> <hr/>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 15 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>N. 89°54' W., beginning new measurement.</p>
39.95	<p>The cor. of secs. 4, 5, 32 and 33, monumented with an iron post, 2 ins. diam., firmly set, projecting 5 ins. above ground, with brass cap mkd. T11S R15W S32 S33 S5 S4 T12S 1941, with an accessory mound of stone, 2 ft. base, 1 1/2 ft. high, W. of the cor.</p> <p>Add the marks 2006 to the brass cap.</p> <p>Set a steel sign post, with an attached Bureau of Land Management standard sign S-201 nearby.</p> <p>Cor. is located on the left bank of a braided wash, 1 ft. deep, 60 ft. wide, drains N.</p> <hr/> <p>N. 89°58' W., bet. secs. 5 and 32.</p> <p>Gently ascending over nearly level desert, broken by shallow washes.</p>
39.97	<p>The 1/4 sec. cor. of secs. 5 and 32, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, with brass cap mkd. 1/4 S32 S5 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 R15W 2006 to the brass cap.</p> <hr/> <p>N. 89°57' W., beginning new measurement.</p>
39.97	<p>The cor. of secs. 5, 6, 31 and 32, monumented with the rusted remains of an iron post, 18 ins. long, 2 ins. diam., firmly set, 10 ins. below the ground, filled with concrete, with the upper portion, 18 ins. long, lying loose alongside, with brass cap mkd. T11S R15W S31 S32 S6 S5 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>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>

**Dependent Resurvey of the South Boundary,
T. 11 S., R. 15 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	T 11 S R 15 W S 31 S 32 S 6 S 5 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. <hr/>
	N. 89°58' W., bet. secs. 6 and 31. Continuing ascent over nearly level terrain.
39.98	The 1/4 sec. cor. of secs. 6 and 31, monumented with an iron post, 1 in. diam., firmly set, projecting 3 ins. above ground, with brass cap mkd. 1/4 S31 S6 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. Add the marks T11S R15W 2006 to the brass cap. <hr/>
	N. 89°58' W., beginning new measurement.
37.81	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 2006, with an accessory mound of stone, 3 ft. base, 1 1/2 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. <hr/>
	GENERAL DESCRIPTION <hr/>
	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. This survey is located 25 miles southeast of the small community of Tacna AZ, and 32 miles southeast of the community of Wellton. The Cabeza Prieta Wilderness and National Wildlife Refuge, is the S. bdy. of this project. Access to the area is reached by an unimproved road southerly of Wellton. The majority of the points for this survey are reached by cross country travel.

T. 11 S., R. 15 W., Gila and Salt River Meridian, Arizona

CHAINS

This project is nearly level, with elevations for the area ranging between 800 and 850 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.

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. 15 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. 15 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. 15 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~(Date)~~

~~(Chief Cadastral Surveyor of Arizona)~~