

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY
OF
THE EAST BOUNDARY,

TOWNSHIP 12 SOUTH, RANGE 17 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated November 3, 2006, approved November 3, 2006, which provided for the surveys included under Group No. 1012, and assignment instructions dated November 3, 2006.

Survey commenced November 15, 2006

Survey completed November 16, 2006

INDEX DIAGRAM

TOWNSHIP 12 SOUTH RANGE 17 WEST
GILA AND SALT RIVER MERIDIAN, ARIZONA

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

T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of the east boundary, Township 12 South, Range 17 West, Gila and Salt River Meridian, Arizona.

The history of surveys pertaining to this resurvey is as follows: Benjamin J. Kinsey surveyed the east 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. 1012, Arizona.

The true meridian direction and length of lines were determined by a combination of static and real time kinematic global positioning system observations using Trimble Navigation 5700 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 AZMO MARICOPA CORS ARP. The NAD 83 (CORS96) (EPOCH:2006.8734), geographic position of the, corner of Townships 12 and 13 South, Ranges 16 and 17 West, is as follows:

Latitude: 32°19'53.82" N. Longitude: 113°57'40.60" W.

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

**Dependent Resurvey of the East Boundary,
T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona**

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

Beginning at the cor. of Tps. 12 and 13 S., Rs. 16 and 17 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 10 ins. above ground, with a mound of stone, 3 ft. base, 2 ft. high to the S., with brass cap mkd. T12S R17W R16W S36 S31 S1 S6 T13S 1940. (Record date: 1941)

**Dependent Resurvey of the East Boundary,
T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Add the marks 2006 to the brass cap.</p> <p>Set a steel fence post, with attached BLM sign, S-201, alongside the stainless steel post.</p> <p>N. 0°02' E., bet. secs. 31 and 36, on the E. bdy. of the Tp.</p> <p>Over nearly level land, through creosote and sage.</p>
39.98	<p>The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S36 S31 1941.</p> <p>Add the marks T12S R17W R16W 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°02' E., beginning new measurement.</p>
39.97	<p>The cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, encircled with a collar of stone, with brass cap mkd. T12S R17W R16W S25 S30 S36 S31 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' E., bet. secs. 25 and 30.</p> <p>Over nearly level land, through creosote, sage and scattered saguaro.</p>
39.96	<p>The 1/4 sec. cor. of secs. 25 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S25 S30 1941.</p> <p>Add the marks T12S R17W R16W to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°01' E., beginning new measurement.</p>

**Dependent Resurvey of the East Boundary,
T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
39.98	<p>The cor. of secs. 19, 24, 25 and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above ground, encircled with a collar of stone, with brass cap mkd. T12S R17W R16W S24 S19 S25 S30 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°03' E., bet. secs. 19 and 24.</p> <p>Over nearly level land, through creosote, sage and scattered saguaro.</p>
39.98	<p>The 1/4 sec. cor. of secs. 19 and 24, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S24 S19 1941.</p> <p>Add the marks T12S R17W R16W 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°03' E., beginning new measurement.</p>
39.96	<p>The cor. of secs. 13, 18, 19 and 24, monumented with an iron post, 2 ins. diam., firmly set, projecting 8 ins. above ground, encircled with a collar of stone, with brass cap mkd. T12S R17W R16W S13 S18 S24 S19 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°04' E., bet. secs. 13 and 18.</p> <p>Over nearly level land, through creosote, sage and scattered saguaro.</p>
39.97	<p>The 1/4 sec. cor. of secs. 13 and 18, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S13 S18 1941.</p> <p>Add the marks T12S R17W R16W 2006 to the brass cap.</p>

**Dependent Resurvey of the East Boundary,
T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°03' E., beginning new measurement.</p>
39.96	<p>The cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above ground, encircled with a collar of stone, with brass cap mkd. T12S R17W R16W S12 S7 S13 S18 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°03' E., bet. secs. 7 and 12.</p> <p>Over nearly level land, through creosote, sage and scattered saguaro.</p>
39.97	<p>The 1/4 sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 8 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S12 S7 1941.</p> <p>Add the marks T12S R17W R16W 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°03' W., beginning new measurement.</p>
39.95	<p>The cor. of secs. 1, 6, 7 and 12, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above ground, encircled with a collar of stone, with brass cap mkd. T12S R17W R16W S1 S6 S12 S7 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr/> <p>N. 0°02' E., bet. secs. 1 and 6.</p> <p>Over nearly level land, through creosote, sage and scattered saguaro.</p>

**Dependent Resurvey of the East Boundary,
T. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
39.98	<p>The 1/4 sec. cor. of secs. 1 and 6, monumented with an iron post, 1 in. diam., firmly set, projecting 10 ins. above ground, encircled with a collar of stone, with brass cap mkd. 1/4 S1 S6 1941.</p> <p>Add the marks T12S R17W R16W 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°04' W., beginning new measurement.</p>
39.94	<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 a mound of stone, 3 1/2 ft. base, 1 ft. high, 5 1/2 lks. to the S., with brass cap mkd. T11S R17W R16W S36 S31 S1 S6 T12S 1941.</p> <p>Add the marks 2006 to the brass cap.</p> <p>A steel fence post, with a USDA Biological Survey Wildlife Refuge, sign attached is set nearby.</p> <hr style="width: 20%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr style="width: 20%; margin: 10px auto;"/> <p>This resurvey is located about 25 miles south of the settlement of Tacna, Arizona. The area west of the resurvey is a part of the Marine Corps Management Area within the Barry M. Goldwater Range. The area east of the resurvey is a part of the Cabeza Prieta National Wildlife Refuge.</p> <p>The terrain is nearly level, with numerous small washes draining northwesterly toward the Gila River. The average elevation is about 950 ft. above sea level. Vegetation is dominated by creosote, and sage, with scattered paloverde, ironwood and saguaro.</p> <p>Access is limited, with one unimproved road from Wellton to Tule Well, crossing between sections 1 and 6.</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 the survey.</p> <hr style="width: 20%; margin: 10px auto;"/>

CERTIFICATE OF SURVEY

I, Gordon R. Bubel, 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 east boundary, Township 12 South, Range 17 West, 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.

JUNE 19, 2007
(Date)

Gordon R. Bubel
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of the east boundary, T. 12 S., R. 17 W., Gila and Salt River Meridian, in the State of Arizona, executed by Gordon R. Bubel, 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. 12 S., R. 17 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____
(Date)~~

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