

ORIGINAL

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

FIELD NOTES  
OF THE  
DEPENDENT RESURVEY OF THE EAST BOUNDARY,  
**TOWNSHIP 13 SOUTH, RANGE 17 WEST,**  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Joel A. Emert, Cadastral Surveyor**

Under Special Instructions dated November 3, 2006, approved November 3, 2006, which provided for the surveys included under Group No. 1013, and assignment instructions dated November 3, 2006.

**Survey commenced November 16, 2006**

**Survey completed November 20, 2006**

**INDEX DIAGRAM**

**TOWNSHIP 13 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. 13 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS

The following field notes describe the Dependent resurvey of the east boundary, Township 13 South, Range 17 West, Gila and Salt River Meridian, Arizona.

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

Benjamin J. Kinsey surveyed the east boundary in 1940-41.

The resurvey 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. 1013, Arizona.

The true meridian direction and length of all lines were determined by fast static 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), MOHAWKVALLAZ2006 CORS ARP, MCDOT BUCKEYE CORS ARP and MARICOPA CORS ARP. The NAD 83 (CORS96)(EPOCH:2006.8871), geographic position of the southeast corner of the township, is as follows:

Latitude: 32°14'40.35" N.                      Longitude: 113°57'41.13" W.

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

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**Dependent Resurvey of the East Boundary,  
T. 13 S., R. 17 W., Gila and Salt River Meridian**

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Restoring the survey executed by  
Benjamin J. Kinsey in 1940-41

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Beginning at the cor. of Tps. 13 and 14 S., Rs. 16 and 17 W., monumented with an iron post, 3 ins. diam., firmly set, projecting 12 ins. above the ground, in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd. T13S R17W R16W S36 S31 S6 S1 T14S 1940.

**Dependent Resurvey of the East Boundary,  
T. 13 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>from which the orig. bearing trees</p> <p>An ironwood, 25 ins. diam., bears S. 36 1/2° E., 2.23 chs. dist., with scribe marks T14S R16W S6 B visible on a partially open blaze.</p> <p>A forked ironwood, 48 ins. diam. at base, bears N. 36 3/4° W., 7.13 chs. dist., with scribe marks T13S R17W S36BT, faintly marked on a 12 in. limb, on a partially open blaze.</p> <p>Add the marks 2006 to the brass cap.</p> <p>With an accessory mound of stone, 2 ft. base, 1 ft. high, S. of cor., and with a steel fence post N. of cor. Attached a Bureau of Land Management, standard sign, S-201, to fence post.</p> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
40.03	<p>The 1/4 sec. cor. of secs. 31 and 36, monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. 1/4 S36 S31 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</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.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°06' E., beginning new measurement.</p>
39.99	<p>The cor. of secs. 25, 30, 31 and 36, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T13S R17W R16W S25 S30 S36 S31 1940.</p> <p>Add the marks 2006 to the brass cap.</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.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
39.99	<p>The 1/4 sec. cor. of secs. 25 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. 1/4 S25 S30 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</p>

**Dependent Resurvey of the East Boundary,  
T. 13 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°03' E., beginning new measurement.</p>
40.01	<p>The cor. of secs. 19, 24, 25 and 30, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above the ground, with brass cap mkd. T13S R17W R16W S24 S19 S25 S30 1940.</p> <p>Add the marks 2006 to the brass cap.</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
40.00	<p>The 1/4 sec. cor. of secs. 19 and 24, monumented with an iron post, 1 in. diam., firmly set, projecting 12 ins. above the ground, with brass cap mkd. 1/4 S24 S19 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., beginning new measurement.</p>
6.74	<p>Bladed road, 14 ft. wide, bears S. 70° E. and N. 70° W.</p>
40.01	<p>The cor. of secs. 13, 18, 19 and 24, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. T13S R17W R16W S13 S18 S24 S19 1940.</p> <p>Add the marks 2006 to the brass cap.</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, N. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
40.00	<p>The 1/4 sec. cor. of secs. 13 and 18, monumented with an iron post, 1 in. diam., firmly set, projecting 13 ins. above the ground, with brass cap mkd. 1/4 S13 S18 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</p>

**Dependent Resurvey of the East Boundary,  
T. 13 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>With the remains of the orig. pit, North, 5 ft. dist. (Record: 3 ft. dist.), and with a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., beginning new measurement.</p>
40.03	<p>The cor. of secs. 7, 12, 13 and 18, monumented with an iron post, 2 ins. diam., firmly set, projecting 14 ins. above the ground, with brass cap mkd. T13S R17W R16W S12 S7 S13 S18 1940.</p> <p>Add the marks 2006 to the brass cap.</p> <p>With the remains of orig. pits, NE, SE, SW and NW, 5 ft. dist. (Record: 3 ft. dist.)</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
40.03	<p>The 1/4 sec. cor. of secs. 7 and 12, monumented with an iron post, 1 in. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. 1/4 S12 S7 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., beginning new measurement.</p>
39.97	<p>The cor. of secs. 1, 6, 7 and 12, monumented with an iron post, 2 ins. diam., firmly set, projecting 9 ins. above the ground, with brass cap mkd. T13S R17W R16W S1 S6 S12 S7 1940.</p> <p>Add the marks 2006 to the brass cap.</p> <p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 20%; margin: auto;"/> <p>N. 0°05' E., on the E. bdy. of the Tp.</p>
39.97	<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 the ground, with brass cap mkd. 1/4 S1 S6 1940.</p> <p>Add the marks T13S R17W R16W 2006 to the brass cap.</p>

**Dependent Resurvey of the East Boundary,  
T. 13 S., R. 17 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>With a steel fence post, with an attached, U.S.D.A. Biological Survey sign, S. of cor.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 0°06' E., beginning new measurement.</p>
39.98	<p>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 the ground, with brass cap mkd. T12S R17W R16W S36 S31 S1 S6 T13S 1940 2006.</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, B.L.M., standard sign, S-201, N. of cor.</p> <hr style="width: 80%; margin: 10px auto;"/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr style="width: 80%; margin: 10px auto;"/> <p>This resurvey is located approximately 25 miles south of Tacna, Arizona. The area west of the resurvey is part of the Marine Corps Management Area within the Barry M. Goldwater Range. The area to the east of the resurvey is part of the Cabeza Prieta National Wildlife Refuge.</p> <p>The terrain is gently sloping to the northwest with numerous washes. The average elevation is about 900 feet above sea level. Vegetation is primarily creosote and sage with sparse Paloverde, Ironwood and Saguaro cactus. Access is an unimproved road located approximately 1 1/2 miles south of Interstate 8 on Avenue 29 E in the town of Wellton, Arizona.</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: 80%; margin: 10px auto;"/>





CERTIFICATE OF SURVEY

I, Joel A. Emert, 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, T. 13 S., R. 17 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.

June 16, 2007  
(Date)

Joel A. Emert  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of the east boundary, T. 13 S., R. 17 W., Gila and Salt River Meridian, in the State of Arizona, executed by Joel A. Emert, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

July 9, 2007  
(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. 13 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)~~