

ORIGINAL

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

FIELD NOTES

OF THE

DEPENDENT RESURVEY OF A PORTION OF
THE FORT HUACHUCA MILITARY RESERVATION BOUNDARY
AND A PORTION OF THE SUBDIVISIONAL LINES

TOWNSHIP 21 SOUTH, RANGE 20 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA

EXECUTED BY

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Under Special Instructions dated April 4, 2003, approved April 4, 2003,
which provided for the surveys included under Group No. 901, and assignment
instructions dated April 4, 2003.

Survey commenced April 21, 2003

Survey completed April 24, 2003

INDEX DIAGRAM

TOWNSHIP 21 SOUTH RANGE 20 EAST

6	5	4	3	2	1
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T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Fort Huachuca Military Reservation Boundary and a portion of the subdivisional lines, Township 21 South, Range 20 East, Gila and Salt River Meridian, Arizona.

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

First Lieutenant Carl F. Palfrey surveyed the Fort Huachuca Military Reservation Boundary in 1881, which was resurveyed and enlarged by First Lieutenant G. J. Fiebeger, in 1883. Philip Contzen surveyed a portion of the south boundary and a portion of the subdivisional lines, in 1901. William E. Hiester resurveyed the Fort Huachuca Military Reservation Boundary and a portion of the subdivisional lines in 1932.

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 April 4, 2003, for Group No. 901, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 4800 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 second order National Geodetic Survey triangulation station "Gate", as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of the corner of sections 27, 28, 33 and 34, is as follows:

Latitude: 31°34'09.13" N. Longitude: 110°18'29.90" W.

The mean magnetic declination is 11° E.

**Dep. Res. of a Portion of the Fort Huachuca Military Reservation
Bdy., T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

Restoring the survey executed by
William E. Hiester, in 1932

**Dependent Resurvey of a Portion of the Fort Huachuca Military Reservation
Bdy., T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>From mile post 13 1/2 of the Fort Huachuca Military Reservation Boundary, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. 13 1/2 M T21S S34 FHMR R20E 1932.</p> <p>Add the marks 2003 to the brass cap.</p> <p>S. 21° 23' E., along the 13th mile of the Fort Huachuca Military Reservation Boundary.</p> <p>Over nearly level land.</p>
3.34	<p>Point for the closing cor. of secs. 28 and 33, at intersection with the Fort Huachuca Military Reservation Boundary, hereinafter described.</p>
39.99	<p>Mile post 14 of the Fort Huachuca Military Reservation Boundary, monumented with an iron post, 1 in. diam., firmly set, projecting 7 ins. above the ground, with brass cap mkd. 14 M T21S S34 FHMR R20E 1932.</p> <p>Add the marks 2003 to the brass cap.</p> <hr/> <p>S. 21° 24' E., along the 14th mile of the Fort Huachuca Military Reservation Boundary.</p> <p>Over nearly level land.</p>
29.92	<p>The closing cor. of secs. 33 and 34, at intersection with the Fort Huachuca Military Reservation Boundary, hereinafter described.</p>
39.97	<p>Mile post 14 1/2 of the Fort Huachuca Military Reservation Boundary, monumented with an iron post, 1 in. diam., firmly set, badly bent, 8 ins. below the surface of the ground, with brass cap mkd. 14 1/2 M T21S S34 FHMR R20E 1932.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p align="center"> T 21 S R 20 E FHMR / T21S 14 1/2 M / R20E / S34 2003 </p> <p>Deposit a magnet in a white plastic case at the base of and bury the iron post alongside of the stainless steel post.</p>

**Dependent Resurvey of a Portion of the Fort Huachuca Military Reservation
Bdy., T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

<p>CHAINS</p>	<p>Cor. is located 70 lks. east of the edge of Business Road 90, bears SE and NW.</p> <hr/> <p align="center">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p align="center">Restoring the survey executed by Philip Contzen, in 1901, and the resurvey by William E. Hiester, in 1932</p> <hr/> <p>From the cor. of secs. 26, 27, 34 and 35, established by Harold N. Epperson, Arizona registered land surveyor, No. 21765, monumented with a brass disk., firmly set, incased in concrete, 6 ins. below the surface of road, in hand hold, with brass disk mkd. ASA 2165. This position is accepted as the best available evidence of the original cor. position.</p> <p>Cor is located in the center of 7th street, extending N. and S. N. 89° 55' W., bet. secs. 27 and 34.</p> <p>Over nearly level land.</p> <p>40.09 Point for the 1/4 sec. cor. of secs. 27 and 34, at proportionate distance, there is no remaining evidence of the original corner.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <p align="center">T 21 S R 20 E S 27 1/4 ——— S 34</p> <p align="center">2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located 5 ft. N. of a south right-of-way fence, bearing E. and W., and also under power lines, bearing E. and W.</p> <p>From this cor., an iron pipe, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with cap mkd., USCE 1/4 27 34 1963 bears S. 6° 09' E., 8 lks dist. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p>
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**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

<p>CHAINS</p> <p>80.18</p>	<p>From this same cor., an iron pipe, 1 in. diam., firmly set, 4 ins. below the surface of the ground, with plastic cap mkd. LS 13172, bears S. 2° 00' E., 72 lks. dist. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p> <p>From this same cor., a 5/8 in. rebar, firmly set, projecting 3 ins. above the ground, in a fence line, bears E. and W., bears N. 26° 34' E., 9 lks. dist. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p> <p>The cor. of secs. 27, 28, 33 and 34, determined by Earl E. Snyder, Arizona Registered Land Surveyor No. 4128, monumented with a galvanized pipe, 1 in. diam., 18 ins. long, firmly set, 9 ins. in the ground, with metal tag mkd. LS 4128. This is accepted as the best available evidence of the position of the original corner.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 22 ins. in the ground, in a collar of stone, with brass cap mkd.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td>T 21 S</td> <td>R 20 E</td> </tr> <tr> <td>S 28</td> <td>S 27</td> </tr> <tr> <td>S 33</td> <td>S 34</td> </tr> </table> <p style="text-align: center;">2003</p> <p>Deposit a magnet in a white plastic case at the base of and place the galvanized pipe inside of the stainless steel post.</p> <p>Cor. is located 3 ft. N. of power line, bears N. and S.</p> <p>From this cor., an iron pipe, 2 1/2 ins. diam., firmly set, projecting 5 ins. above the ground, with a screwed on cap mkd. USCE 28 27 33 34 1968, bears S. 5° 37' E., 15 lks. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p> <p>From this same cor., National Geodetic Survey Triangulation Station "GATE" bears N. 25° 42' W., 14.99 chs. dist., monumented with a standard brass disk, 3 ins. diam., set in a concrete cylinder, 10 ins. diam., firmly set, projecting 4 ins. above the ground, with top mkd HIGHWAY DIV GATE ASH 1986.</p> <hr/> <p>S.0° 06' E., bet. secs. 33 and 34.</p> <p>Over nearly level land.</p>	T 21 S	R 20 E	S 28	S 27	S 33	S 34
T 21 S	R 20 E						
S 28	S 27						
S 33	S 34						

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

CHAINS	
40.22	<p>The 1/4 sec. cor. of secs. 33 and 34, monumented with a 5/8 in. diam. rebar, 18 in. long, 4 in. below the surface of the ground. This is accepted as the best available evidence of the position of the original corner.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.</p> <p align="center">T 21 S R 20 E 1/4 S 33 S 34</p> <p align="center">2003</p> <p>Deposit a magnet in a white plastic case at the base of and the rebar inside of the stainless steel post.</p> <p>Cor. is located 27 lks. W. of the centerline of paved road, 22 ft. wide, bears N. and S.</p> <p>From this cor., an iron pipe, 2 1/2 ins. diam., firmly set, projecting 9 ins. above the ground, with a screwed on cap mkd. USCE 33 34 1/4 1968, bears N. 0° 04' W., 150 lks. dist. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p> <p>From this same cor., a 5/8 in. diam. rebar, firmly set, projecting 2 ins. above the ground, with aluminum cap mkd. 1998 LS 28737 bears N. 0° 13' E., 34 lks. dist. This corner was reestablished using improper procedures and is not utilized in the course of this resurvey.</p> <hr/> <p>S. 0°04' E., beginning new measurement.</p>
21.78	<p>The closing cor. of secs. 33 and 34, at intersection with the Fort Huachuca Military Reservation Boundary, established by Arthur G. Petterson, Arizona Registered Land Surveyor, No. 4785, monumented with an iron pipe, 2 1/2 ins. diam., firmly set, 4 ins. below the surface of the ground, with screwed on cap mkd., USCE 33 34 1968 ASA 2090. This is accepted as a careful and faithful reestablishment of the position of the original corner.</p> <p>From this cor., mile post 14 of the Fort Huachuca Military Reservation Boundary, bears N. 21° 24' W., 29.92 chs. dist., hereinbefore described.</p> <p>From this same cor., mile post 14 1/2 of the Fort Huachuca Military Reservation Boundary, bears S. 21° 24' E., 10.05 chs. dist., hereinbefore described.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona**

CHAINS	
39.99	<hr/> <p>From the cor. of secs 27, 28, 33 and 34, hereinbefore described. N. 0° 06'W., bet. secs. 27 and 28.</p> <p>Over nearly level land.</p> <p>Point for the 1/4 sec. cor. of secs. 27 and 28, at proportionate distance, there is no remaining evidence of the original cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 23 ins. in the ground, with brass cap mkd.</p> <p align="center">T 21 S R 20 E 1/4 S 28 S 27 2003</p> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>Cor. is located in a disturbed area, with evidence of an abandoned dump site.</p> <p>From this cor., a granite stone, 13 X 11 X 8 ins., lying loosely on the ground, bears N. 8° 53' E., 72 lks. dist., mkd. 1/4 28 on one face and 27 on the opposite face.</p>
79.98	<p>The cor. of secs. 21, 22, 27 and 28, monumented with a granite stone, 18 X 8 X 7 ins., firmly set, projecting 7 ins. above the ground, clearly mkd. with 3 grooves on the E. face and 2 grooves on the S. face.</p> <p>At the cor. point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 20 ins. in the ground, in a mound of stone, 2 ft. base, to top, with brass cap mkd.</p> <p align="center">T 21 S R 20 E S 20 S 21 S 29 S 28 2003</p> <p>Deposit a magnet in a white plastic case at the base and bury the original stone alongside of the stainless steel post.</p> <hr/> <p>From the cor. of secs 27, 28, 33 and 34, hereinbefore described.</p>

Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 21 S., R. 20 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p> <p>24.18</p>	<p>S. $89^{\circ} 56'W.$, bet. secs. 28 and 33.</p> <p>Over nearly level land.</p> <p>Point for the closing cor. of secs. 28 and 33, at intersection with the Fort Huachuca Military Reservation Boundary, at proportionate distance, there is no remaining evidence of the original cor.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center;"> <p>T 21 S R 20 E S 28 c FHMR S 33 c 2003</p> </div> <p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <p>From this cor., mile post 14 of the Fort Huachuca Military Reservation Boundary, bears S. $21^{\circ} 23' E.$, 36.65 chs. dist., hereinbefore described.</p> <p>From this same cor., mile post 13 1/2 of the Fort Huachuca Military Reservation Boundary, bears N. $21^{\circ} 23' W.$, 3.34 chs. dist., hereinbefore described.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>The land encompassed in this survey is located in the city of Sierra Vista, along the east boundary of the Fort Huachuca Military Reservation. There is extensive development in the area.</p> <p>The mean magnetic declination of $11^{\circ} E.$ was derived from the United States Geological Survey computer program GEOMAGIX, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.</p> <hr/>
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