

ORIGINAL

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

FIELD NOTES
OF THE
CORRECTIVE DEPENDENT RESURVEY
OF A PORTION OF
THE EAST BOUNDARY
OF THE
SAN CARLOS INDIAN RESERVATION
TOWNSHIP 4 SOUTH, RANGE 22 EAST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Craig S. Dukart, Cadastral Surveyor

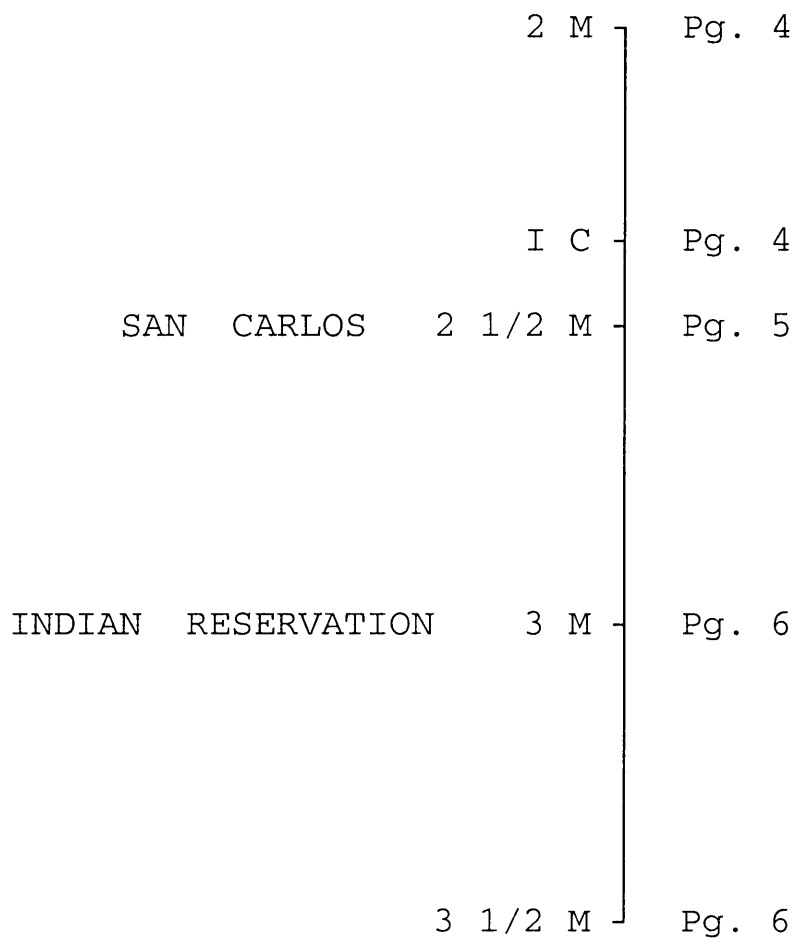
Under Supplemental Special Instructions dated October 13, 2009, approved October 13, 2009, which provided for the surveys included under Group No. 554, and assignment instructions dated October 13, 2009.

Survey commenced October 27, 2009

Survey completed October 27, 2009

INDEX DIAGRAM

TOWNSHIP 4 SOUTH RANGE 22 EAST
GILA AND SALT RIVER MERIDIAN, ARIZONA



T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the corrective dependent resurvey of a portion of the east boundary of the San Carlos Indian Reservation, Township 4 South, Range 22 East, Gila and Salt River Meridian, Arizona.

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

The east boundary of the White Mountain or San Carlos Indian Reservation was surveyed by Paul Riecker, U.S. Deputy Surveyor, in 1883.

The resurvey of a portion of the eastern boundary of the White Mountain or San Carlos Indian Reservation, was surveyed by Charles E. Walker, U.S. Deputy Surveyor, in 1887.

The resurvey of the east boundary of the White Mountain or San Carlos Indian Reservation, was surveyed by H.L. Baldwin, Topographer, in 1915.

The dependent resurvey of a portion of the east boundary of the San Carlos Indian Reservation, was surveyed by Ray Harpin and Douglas A. Cody, Supervisory Cadastral Surveyors, in 1973-74, under this same group.

The dependent resurvey of a portion of the east boundary of the San Carlos Indian Reservation, was surveyed by Paul L. Reeves, Cadastral Surveyor, in 1976, under the supervision of Boyd S. Owens, Chief, Branch of Cadastral Survey.

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 Supplemental Special Instructions dated October 13, 2009, for Group Number 554, Arizona.

The true meridian direction and length of all lines were determined by real time kinematic global positioning system observations using Trimble Navigation 5800 model receivers.

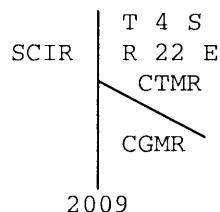
Preliminary to the resurvey, the lines of the prior surveys were retraced and search was made for all corners and other calls of record. Identified corners were remonumented in their original positions. Lost corners were reestablished and remonumented at proportionate positions based on the official record. The retracement data were thoroughly verified and only the true line field notes are given herein.

T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona

<p>CHAINS</p>	<p>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) AZKR KEARNY CORS ARP, AZGB GILA COUNTY CORS ARP and AZSF SAFFORD CORS ARP. The NAD 83 (CORS96) (EPOCH 2002.00000), geographic position of the 2 Mile Corner, is as follows:</p> <p>Latitude: 33°03'51.74" N. Longitude: 110°03'23.18" W.</p> <p>The mean magnetic declination is 10 1/2° E.</p> <hr/> <p style="text-align: center;">Corrective Dependent Resurvey of a Portion of the East Boundary of the San Carlos Indian Reservation, T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">Restoring the survey executed by H.L. Baldwin, in 1915 and Correcting the resurveys executed by Ray Harpin and Douglas A. Cody in 1973-74, and Paul L. Reeves, in 1976</p> <hr/> <p>Beginning at the 2 mile cor., monumented with an iron post, 3 ins. diam., firmly set, projecting 10 ins. above the ground, in the remnants of a mound of stone, 2 1/2 ft. base, 1/2 ft. high, with brass cap mkd. EB SCIR 2M T4S R22E S23 74 1915.</p> <p>Add the marks 2009 to the brass cap.</p> <p>Cor. is located in barbed wire fence, bears N. and S.</p> <p>S. 0°09' E., on line 2-2 1/2.</p> <p>7.13 A granite stone, 18 x 12 ins., firmly set, projecting 10 ins. above the ground, mkd. CTMR C on the east face. Cor. is located at the intersection of fences extending N., S. and E.</p> <p>30.80 The initial cor. of the abandoned Fort Thomas and Camp Goodwin Military Reservations, monumented with an iron post, 3 ins. diam., firmly set, 14 ins. below ground, with brass cap mkd. FLAGSTF OCG 1915. No search was made for the 1915 bearing trees during the execution of this survey.</p> <p>At the corner 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>
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Corrective Dependent Resurvey of a Portion of the
East Boundary of the San Carlos Indian Reservation,
T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona

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

Deposit the 1915 iron post alongside the stainless steel post.

Cor. is located in a barbed wire fence, bears N. and S.

From this cor. point, the point for the initial cor. of the abandoned Fort Thomas and Camp Goodwin Military Reservations, as incorrectly established in the 1976 dependent resurvey, bears S. $5^{\circ}48'$ E., 9 lks. dist., monumented with an iron post, 2 1/2 ins. diam., loosely set, projecting 18 ins. above the ground, with brass cap mkd. SCIR T4S R22E CTMR CGMR 1976.

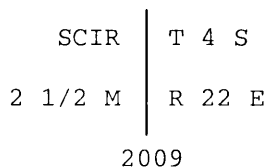
Add the marks AM to the brass cap, and invert and bury in place, the 1976 iron post.

S. $0^{\circ}16'$ E., beginning new measurement.

9.10 The 2 1/2 mile cor., monumented with an iron post, 1 in. diam., firmly set, 1 in. below ground, with brass cap mkd. SB WMIR 2 1/2 M T4S R22E S26 1915. No search was made for the 1915 bearing trees during the execution of this survey.

At the corner point

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with brass cap mkd.



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

Deposit the 1915 iron post alongside the stainless steel post.

Cor. is located in barbed wire fence, bears N. and S.

**Corrective Dependent Resurvey of a Portion of the
East Boundary of the San Carlos Indian Reservation,
T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona**

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	<p>From this cor. point, the point for the 2 1/2 mile cor., as incorrectly established in the 1974 dependent resurvey, bears S. 0°17' E., 11 lks. dist., monumented with an iron post, 2 1/2 ins. diam., firmly set, projecting 4 ins. above the ground, with brass cap mkd. SCIR 2 1/2 M T4S R22E 1976.</p> <p>Add the marks AM to the brass cap, and invert and bury in place, the 1974 iron post.</p> <hr/> <p>S. 0°14' E., on line 2 1/2 - 3.</p>								
39.895	<p>The 3 mile cor., monumented with and iron post, 3 ins. diam., firmly set, projecting 4 ins. above ground, with brass cap mkd. SCIR 3M T4S R22E S26 1915. No search was made for the 1915 bearing trees during the execution of this survey.</p> <p>Add the marks 2009 to the brass cap.</p> <p>Cor. is located in barbed wire fence, bears N. and S.</p> <hr/> <p>S. 0°14' E., on line 3 - 3 1/2.</p>								
40.03	<p>The 3 1/2 mile cor., monumented with an iron post, 1 in. diam., firmly set, projecting 5 ins. above the ground, with brass cap mkd. SCIR 3 1/2 M T4S R22E S35 74 1915. No search was made for the 1915 bearing trees during the execution of this survey.</p> <p>Add the marks 2009 to the brass cap.</p> <p>The iron post broke, 3 ins. below the ground, when pulled on.</p> <p>At the corner point</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 26 ins. in the ground, with brass cap mkd.</p> <table border="0" data-bbox="771 1417 1031 1585" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding-right: 10px;">SCIR</td> <td style="border-left: 1px solid black; padding-left: 10px;">T 4 S</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; padding-left: 10px;">R 22 E</td> </tr> <tr> <td style="padding-right: 10px;">3 1/2 M</td> <td style="border-left: 1px solid black; padding-left: 10px;">S35</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; padding-left: 10px;">2009</td> </tr> </table> <p>Deposit a magnet, in a white plastic case, and the top 8 ins. of the 1915 iron post, at the base of the stainless steel post.</p> <p>Deposit the bottom 28 ins. of the 1915 iron pipe inside the stainless steel post.</p>	SCIR	T 4 S		R 22 E	3 1/2 M	S35		2009
SCIR	T 4 S								
	R 22 E								
3 1/2 M	S35								
	2009								

T. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona

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GENERAL DESCRIPTION

This corrective dependent resurvey of a 1 1/2 mile section of the east boundary of the San Carlos Indian Reservation, was executed to correct the mistakes made in the 1973-74 and 1976 dependent resurveys.

Access to this survey was by way of Highway No. 70, and a series of dirt roads.

The mean magnetic declination of 10 1/2° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2005 for the dates of survey.

CERTIFICATE OF SURVEY

I, Craig S. Dukart, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of supplemental special instructions bearing date of the 13th day of October, 2009, I have executed a corrective dependent resurvey of a portion of the east boundary of the San Carlos Indian Reservation, T. 4 S., R. 22 E., 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 supplemental 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.

12/18/09
(Date)

Craig S. Dukart
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the corrective dependent resurvey of a portion of the east boundary of the San Carlos Indian Reservation, T. 4 S., R. 22 E., Gila and Salt River Meridian, in the State of Arizona, executed by Craig S. Dukart, Cadastral Surveyor, having been critically examined and found correct, are hereby approved.

1/8/2010
(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. 4 S., R. 22 E., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

~~_____~~
~~(Date)~~

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