

ORIGINAL

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

FIELD NOTES
OF THE
DEPENDENT RESURVEY OF A PORTION OF
THE COLORADO RIVER INDIAN RESERVATION BOUNDARY
AND
A PORTION OF THE SUBDIVISIONAL LINES
TOWNSHIP 4 NORTH, RANGE 20 WEST,
OF THE GILA AND SALT RIVER MERIDIAN,
IN THE STATE OF ARIZONA.

EXECUTED BY

Gordon R. Bubel, Cadastral Surveyor

Under Special Instructions dated January 10, 2008, approved January 10, 2008, which provided for the surveys included under Group No. 1036, and assignment instructions dated January 10, 2008.

Survey commenced February 26, 2008

Survey completed March 19, 2008

INDEX DIAGRAM

TOWNSHIP 4 NORTH RANGE 20 WEST
 GILA AND SALT RIVER MERIDIAN, ARIZONA

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Dependent Resurvey of a Portion of the
 Colorado River Indian Reservation Boundary Pages 4-7

T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

The following field notes describe the dependent resurvey of a portion of the Colorado River Indian Reservation Boundary and a portion of the subdivisional lines, Township 4 North, Range 20 West, Gila and Salt River Meridian, Arizona.

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

In 1875, Chandler Robbins surveyed the Colorado River Indian Reservation, in accordance with an Executive Order, dated November 16, 1874.

In 1912, Guy P. Harrington surveyed the Colorado River Indian Reservation, as described in the letter from the General Land Office Commissioner, titled "Boundary lines, Colorado River Indian Reservation, Arizona and California", dated January 22, 1912. Harrington in 1912, also surveyed the west boundary and a portion of the south boundary, and the subdivisional lines within the Colorado River Indian Reservation. A portion of the Colorado River Indian Reservation within the township, was extinguished via Executive Order No. 2273, dated November 22, 1915.

Ty White and Claude F. Warner, completed the survey of the south boundary of the township in 1950-51.

Gordon R. Bubel, resurveyed a portion of the south boundary in 2008.

Public Law 109-47, dated August 2, 2005, restored the boundary of the Colorado River Indian Reservation as surveyed by Harrington in 1912.

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 January 10, 2008, for Group Number 1036, Arizona.

The true meridian direction and length of all lines were determined by 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.

T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona

CHAINS

Geodetic control was derived from first order U. S. Geological Survey triangulation station EHRENBURG, as published by the National Geodetic Survey, NAD 83 (1992). The geographic position of closing township corner between sections 6 and 31, on the south boundary of the township is as follows:

Latitude: 33°38'10.54" N. Longitude: 114°21'54.96" W.

The mean magnetic declination is 12° E.

**Dependent Resurvey of a Portion of the
Colorado River Indian Reservation Boundary,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

Restoring the resurvey executed by
Guy P. Harrington, in 1912

Beginning at the closing cor. of secs. 6 and 31, on the S. bdy. of the Tp., monumented with an aluminum post, 2 1/2 ins. diam., firmly set, projecting 9 ins. above ground, in a mound of stone, 3 ft. base, to top, with aluminum cap mkd. T4N R20W CRIT S31 CC S6 T3N R20W 2008.

From this cor. point, the 1912 closing cor. of secs. 6 and 31, bears N. 89°57' W., 20 lks. dist., monumented with an iron post, 1 in. diam., firmly set, projecting 27 ins. above ground, in a mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. S31 PL T4N R20W S31 CRIR T3N CC S6 S6 1912 1951 2008, and the chisel marks AM in 1 1/2 ins. high letters on the brass cap.

From this same cor. point, Mile Post 11, of the CRIR bdy., in T. 3 N., R. 20 W., bears S. 1°31' W., 33.59 chs. dist., monumented with an iron post, 1 in. diam., firmly set, projecting 30 ins. above ground, in a supporting mound of stone, 3 ft. base, 1 ft. high, with brass cap mkd. MP11 CRIR PL 1912 2008.

From this same cor. point, the 1/4 sec. cor. of secs. 6 and 31, Tps. 3 and 4 N., R. 20 W., bears S. 89°37' E., 4.55 chs. dist., monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 ft. base, to top, with brass cap mkd. T4N R20W 1/4 S31 S6 T3N 1951 2008.

N. 1°31' E., on a portion of the 12th mile of Colorado River Indian Reservation bdy. (hereinafter CRIR bdy.).

Over mountainous land.

**Dependent Resurvey of a Portion of the
Colorado River Indian Reservation Boundary,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS	
46.17	<p>Mile Post 12, of the CRIR bdy., monumented with an iron post, 1 in. diam., firmly set, projecting 27 ins. above ground, in a mound of stone, 2 1/2 ft. base, 1 ft. high, with brass cap mkd. CRIR 12M PL 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located on a steep, rocky, E. facing slope.</p> <hr/> <p>N. 1°32' E., beginning new measurement, on the 13th mile of CRIR bdy.</p> <p>Over mountainous land.</p>
16.62	<p>Point for a witness point, at intersection with the southerly right-of-way of U.S. Interstate Highway No. 10, in tangent.</p> <p>Set an aluminum drive rod, 3/4 in. diam., 6 ins. long, 6 ins. in the ground, in a drill hole, cemented in place, with aluminum cap mkd.</p> <div style="text-align: center;"> <p>WP</p> <p>T 4 N R 20 W</p> <hr style="width: 50%; margin: auto;"/> <p>CRIT S 31</p> <p>2008</p> </div> <p>Cor. is located in right-of-way fence, (barbed wire, bears E. and W.), on a steep, rocky south facing outcropping.</p> <p>From this cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 521 + 35.54 ST, on the southerly right-of-way of U.S. Interstate Highway No. 10, bears S. 88°22' W., 22.35 chs. dist.</p> <p>From this same cor. point, the calculated position for Arizona Dept. of Transportation, right-of-way station 552 + 94.14 PC, on the southerly right-of-way of U.S. Interstate Highway No. 10, bears N. 88°22' E., 25.50 chs. dist.</p>
22.74	<p>Point for a witness point, at intersection with the northerly right-of-way of U.S. Interstate Highway No. 10, in tangent.</p> <p>Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 15 ins. in the ground, in a mound of stone, 4 ft. base, to top, with aluminum cap mkd.</p>

**Dependent Resurvey of a Portion of the
Colorado River Indian Reservation Boundary,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	WP T 4 N R 20 W <hr style="width: 10%; margin: 0 auto;"/> CRIT S 31 2008
	<p>Deposit a magnet, in a white plastic case, at the base of the aluminum post.</p> <p>Cor. is located 28 lks. N., of right-of-way fence, barbed wire, bears E. and W.</p> <p>From this cor. point, Arizona Dept. of Transportation, right-of-way station 520 + 00 P.T., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears S. 88°18' W., 25.65 chs. dist. Monumented with a brass disk, 3 ins. diam., set in a concrete cylinder, 6 ins. diam., projecting 10 ins. above ground, with top mkd. ARIZONA HIGHWAY DEPT. 520 + 00 19.</p> <p>From this same cor. point, Arizona Dept. of Transportation, right-of-way station 552 + 98.71 P.C., on the northerly right-of-way of U.S. Interstate Highway No. 10, bears N. 88°18' E., 25.22 chs. dist. Monumented with a brass disk, 3 ins. diam., set in a concrete cylinder, 6 ins. diam., projecting 6 ins. above ground, with top mkd. ARIZONA HIGHWAY DEPT. 552 + 98.71 19.</p>
34.15	The closing cor. bet. secs. 30 and 31, hereinafter described.
80.07	<p>Mile Post 13, of the CRIR bdy., monumented with an iron post, 1 in. diam., firmly set, projecting 30 ins. above ground, in a mound of stone, 3 ft. base, 2 ft. high, with brass cap mkd. MP13 CRIR PL 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located on a bench, within steep, rocky, E. facing slope.</p> <hr style="width: 50%; margin: 10px auto;"/> <p>N. 1°30' E., beginning new measurement, on the 14th mile of CRIR bdy.</p> <p>Over mountainous land.</p>
33.99	The 1912 closing cor. bet. secs. 19 and 30, hereinafter described.
48.27	Angle point 18, of the CRIR bdy., monumented with an iron post, 3 ins. diam., firmly set, projecting 36 ins. above ground, in a supporting mound of stone, 6 ft. base, 2 1/2 ft. high, with brass cap mkd. CRIR AP18 PL 1912.

**Dependent Resurvey of a Portion of the
Colorado River Indian Reservation Boundary,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located atop, a peak in the Dome Rock Mountains, and is referred to as the highest point of LaPaz Mountain by Harrington.</p> <hr/> <p>N. 6°33' E., beginning new measurement, continuing on the 14th mile of the CRIR bdy.</p> <p>Descending, over mountainous land.</p>
31.85	<p>Mile Post 14, of the CRIR bdy., monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 3 ft. base, to top, with brass cap mkd. MP14 CRIR PL 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located on steep, rocky E. facing slope.</p> <hr/> <p>N. 6°39' E., beginning new measurement, on the 15th mile of the CRIR bdy.</p> <p>Descending, over mountainous land.</p>
34.47	<p>The closing cor. bet. secs. 18 and 19, hereinafter described.</p>
80.18	<p>Mile Post 15, of the CRIR bdy., monumented with an iron post, 1 in. diam., firmly set, projecting 16 ins. above ground, in a collar of stone, with a mound of stone, 3 ft. base, 1 1/2 ft. high, to the S., with brass cap mkd. MP15 CRIR PL 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <hr/> <p style="text-align: center;">Dependent Resurvey of a Portion of the Subdivisional Lines, T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona</p> <hr/> <p style="text-align: center;">Restoring the survey executed by Guy P. Harrington, in 1912</p> <hr/> <p>From the cor. of secs. 25, 30, 31 and 36, on the W. bdy. of the Tp., monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 4 1/2 ft. base, to top, with brass cap mkd. S25 S30 T4N R21W R20W S36 S31 1912.</p> <p>Add the marks 2008 to the brass cap.</p>

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS																
	N. 89°59' E., bet. secs. 30 and 31.															
	Ascending, over mountainous land.															
39.07	The closing cor. of secs. 30 and 31, at intersection with the CRIR bdy., monumented with a mound of stone, 3 ft. diam., 1 ft. high, the iron post was not recovered.															
	At the corner point															
	Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 14 ins. in the ground, in a mound of stone, 3 ft. base, 1 ft. high, with aluminum cap mkd.															
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td>T 4 N</td> <td>R 20 W</td> </tr> <tr> <td>C</td> <td>S 30</td> <td> </td> </tr> <tr> <td>R</td> <td>_____</td> <td>C</td> </tr> <tr> <td>I</td> <td></td> <td>C</td> </tr> <tr> <td>T</td> <td>S 31</td> <td> </td> </tr> </table>		T 4 N	R 20 W	C	S 30		R	_____	C	I		C	T	S 31	
	T 4 N	R 20 W														
C	S 30															
R	_____	C														
I		C														
T	S 31															
	2008															
	Deposit a magnet, in a white plastic case, at the base of the aluminum post.															
	From this cor. point, mile post 12 of the CRIR bdy., bears S. 1°32' W., 34.15 chs. dist., hereinbefore described.															
	From this same cor. point, mile post 13, of the CRIR bdy., bears N. 1°32' E., 45.92 chs. dist., hereinbefore described.															
	From this same cor. point, the 1/4 sec. cor. of secs. 30 and 31, bears S. 88°45' E., 2.23 chs. dist., monumented with an iron post, 1 in. diam., firmly set, projecting 6 ins. above ground, with a mound of stone, 3 ft. base, 2 ft. high to the N., with brass cap mkd. 1/4 S30 S31 1951.															
	Add the marks T4N R20W 2008 to the brass cap.															
	<hr/> From the 1/4 sec. cor. of secs. 19 and 30, monumented with an iron post, 1 in. diam., firmly set, projecting 24 ins. above ground, in a mound of stone, 3 ft. base, 1 1/2 ft. high, with brass cap mkd. 1/4 S19 S30 1912.															
	Add the marks T4N R20W 2008 to the brass cap.															
	S. 89°34' E., bet. secs. 19 and 30.															
	Descending, over mountainous land.															

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS																
1.46	<p>The closing cor. of secs. 19 and 30, at intersection with the CRIR bdy., monumented with an iron post, 1 in. diam., firmly set, projecting 30 ins. above ground, in a mound of stone, 3 1/2 ft. base, 2 ft. high, with brass cap mkd. T4N CRIR S19 CC PL S30 R20W 1912.</p> <p>Add the marks 2008 to the brass cap.</p> <p>Cor. is located on a steep E. facing slope.</p> <p>From this cor. point, mile post 13 of the CRIR bdy., bears S. 1°30' W., 33.99 chs. dist., hereinbefore described.</p> <p>From this same cor. point, angle point 18, of the CRIR bdy., bears N. 1°30' E., 14.28 chs. dist., hereinbefore described.</p> <hr/> <p>From the 1/4 sec. cor. of secs. 18 and 19, monumented with an iron post, 1 in. diam., firmly set, projecting 30 ins. above ground, in a supporting mound of stone, 3 ft. base, 2 ft. high, with brass cap mkd. 1/4 S18 S19 1912.</p> <p>Add the marks T4N R20W 2008 to the brass cap.</p> <p>N. 89°49' E., bet. secs. 18 and 19.</p> <p>Over mountainous land.</p>															
9.525	<p>The 1912 closing cor. of secs. 18 and 19, monumented with an iron post, 1 in. diam., firmly set, projecting 32 ins. above ground, in a supporting mound of stone, 3 ft. base, 2 1/2 ft. high, with brass cap mkd. T4N S18 S19 CRIR CC PL R20W 1912.</p> <p>Chisel the marks AM across the face of the brass cap and add the marks 2008 to the same.</p>															
9.56	<p>Point for the closing cor. of secs. 18 and 19, at intersection with the CRIR bdy.</p> <p>Set an aluminum post, 28 ins. long, 2 1/2 ins. diam., 24 ins. in the ground, with aluminum cap mkd.</p> <div style="text-align: center;"> <table border="0"> <tr><td></td><td>T 4 N</td><td></td></tr> <tr><td>C</td><td>S 18</td><td>/</td></tr> <tr><td>R</td><td>CC</td><td>/</td></tr> <tr><td>I</td><td>S 19</td><td>/</td></tr> <tr><td>T</td><td>R 20 W</td><td></td></tr> </table> <p>2008</p> </div> <p>Deposit a magnet, in a white plastic case, at the base of the aluminum post.</p>		T 4 N		C	S 18	/	R	CC	/	I	S 19	/	T	R 20 W	
	T 4 N															
C	S 18	/														
R	CC	/														
I	S 19	/														
T	R 20 W															

**Dependent Resurvey of a Portion of the Subdivisional Lines,
T. 4 N., R. 20 W., Gila and Salt River Meridian, Arizona**

CHAINS

From this cor. point, mile post 14 of the CRIR bdy., bears S. 6°39' W., 34.47 chs. dist., hereinbefore described.

From this same cor. point, mile post 15, of the CRIR bdy., bears N. 6°39' E., 45.71 chs. dist., hereinbefore described.

GENERAL DESCRIPTION

The area embraced in this survey, is within the Dome Rock Mountains, consisting of high, rough and rocky ridges and peaks.

The vegetation is dominated by cacti, palo verde and creosote.

Numerous mining claims corners were encountered throughout the area surveyed.

The mean magnetic declination of 12° 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, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 10th day of January, 2008, I have dependently resurveyed a portion of the Colorado River Indian Reservation boundary and a portion of the subdivisional lines, Township 4 North, Range 20 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.

Nov. 6, 2008
(Date)

Gordon R. Bubel
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT
Phoenix, Arizona

The foregoing field notes of the dependent resurvey of a portion of the Colorado River Indian Reservation boundary and a portion of the subdivisional lines, Township 4 North, Range 20 West, 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.

02/05/2009
(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 N., R. 20 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.~~

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

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