

ORIGINAL

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

FIELD NOTES  
OF THE  
DEPENDENT RESURVEY OF A  
PORTION OF THE SUBDIVISIONAL LINES  
AND  
A METES-AND-BOUNDS SURVEY  
IN SECTION 28  
TOWNSHIP 21 NORTH, RANGE 21 WEST,  
OF THE GILA AND SALT RIVER MERIDIAN,  
IN THE STATE OF ARIZONA.

**EXECUTED BY**

**Gordon R. Bubel, Cadastral Surveyor**

Under Special Instructions dated February 14, 2005, approved February 14, 2005, which provided for the surveys included under Group No. 953, and assignment instructions dated February 14, 2005.

**Survey commenced March 8, 2005**

**Survey completed March 11, 2005**

**INDEX DIAGRAM**

TOWNSHIP 21 NORTH                      RANGE 21 WEST  
GILA AND SALT RIVER MERIDIAN, ARIZONA

6	5	4	3	2	1
7	8	9	10	11	12
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Metes-and-Bounds Survey in Section 28.....Pages 6-8

**T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines and the metes-and-bounds survey in section 28, Township 21 North, Range 21 West, Gila and Salt River Meridian, Arizona.

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

Theo O. Johnston, U.S. Surveyor and Edward O. Lyman, U.S. Transitman, surveyed the subdivisional lines in 1915.

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 February 14, 2005, for Group No. 953, 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.

Geodetic control was derived from first order U. S. Coast and Geodetic Survey triangulation station "FT MOHAVE 1934", as published by the National Geodetic Survey, NAD 83 (1993). The geographic position of Angle Point 4, is as follows:

Latitude: 35°10'52.17" N.                      Longitude: 114°31'15.41" W.

The mean magnetic declination is 12 1/2° E.

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Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona

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Restoring the survey executed by  
Theo. O. Johnston and Edward O. Lyman, in 1915.

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Beginning at the cor. of secs. 21, 22, 27 and 28, monumented with an iron post, 2 ins. diam., firmly set, projecting 11 ins. above ground, with brass cap mkd. T21N R21W S21 S22 S28 S27 1915.

from which

A wooden power pole, bears S. 50° E., 27 lks. dist.

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

<p>CHAINS</p> <p>7.88</p> <p>11.68</p> <p>14.95</p>	<p>Add the marks 2005 to the brass cap.</p> <p>S. 89°56' W., bet. secs. 21 and 28.</p> <p>Descending over rolling land, through sparse vegetation.</p> <p>Point for AP 1, of the metes-and-bounds survey in sec. 28, established by Edward F. Vincent, Arizona Registered Land Surveyor No. 17548 in 1991, monumented with a PK nail, set flush with the pavement of Mercer Road, with attached brass wafer stamped LS 17548. The cor. was established as part of a survey for the State of Arizona, recorded and on file in Mohave County Records Office, in Book 8 of Record of Surveys on page 48.</p> <p>This is accepted as a careful and faithful determination of the position of the cor.</p> <p>At the corner point</p> <p>Set a railroad spike, flush with the surface of asphalt.</p> <p>from which</p> <p style="padding-left: 40px;">The top bolt, (5 sided, 1 1/2 ins. wide) of a fire hydrant, bears N. 62 3/4° E., 2.515 chs. dist.</p> <p style="padding-left: 40px;">An X, 2 ins. wide, chiseled on the top of curb, on the north side of McCormick Boulevard, bears N. 38 1/4° W., 1.195 chs. dist.</p> <p>Discard the PK nail.</p> <p>Point for AP 2, of the metes-and-bounds survey in sec. 28.</p> <p>Set a steel chisel, 6 1/2 ins. long, 1/2 in. wide, flush with the pavement of McCormick Boulevard.</p> <p>from which</p> <p style="padding-left: 40px;">An X, 2 ins. wide, chiseled on the top of curb, on the south side of McCormick Boulevard, bears S. 57 3/4° W., 74.5 lks. dist.</p> <p style="padding-left: 40px;">The top bolt, (5 sided, 1 1/2 ins. wide) of a fire hydrant, bears N. 17° W., 55.5 lks. dist.</p> <p>Point for AP 3, of the metes-and-bounds survey in sec. 28, established by Edward F. Vincent, Arizona Registered Land Surveyor No. 17548 in 1991, monumented with a PK nail, set flush with the pavement of McCormick Boulevard, with attached brass wafer, damaged and unreadable. The cor. was established as part of a survey for the State of Arizona, recorded and on file in Mohave County Records Office, in Book 8 of Record of Surveys on page 48.</p>
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**Dependent Resurvey of a Portion of the Subdivisional Lines,  
T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>This is accepted as a careful and faithful determination of the position of the cor.</p> <p>At the corner point</p> <p>Set a railroad spike, flush with the surface of asphalt.</p> <p>from which</p> <p style="padding-left: 40px;">An X, 2 ins. wide, chiseled on the top of curb, on the south side of McCormick Boulevard, bears S. 31 3/4° W., 47.0 lks. dist.</p> <p style="padding-left: 40px;">The top bolt, (5 sided, 1 1/2 ins. wide) of a fire hydrant, bears N. 67 1/4° W., 1.31 chs. dist.</p> <p>Discard the PK nail.</p> <p>Thence, along the center of pavement of McCormick Boulevard.</p> <p>39.95 The 1/4 sec. cor. of secs. 21 and 28, monumented with a brass tablet, 2 1/2 ins. diam., set 6 ins. below the pavement of McCormick Boulevard, 50 ft. wide, bears E. and W., in a iron cylinder, 8 ins. diam., with brass tablet mkd. T21N R21W 1/4 S21 S28 16617. Cor. was reestablished by Jack L. Stovall, deceased Arizona Registered Land Surveyor No. 16617.</p> <p>This is accepted as a careful and faithful reestablishment of the position of the orig. cor.</p> <hr style="width: 20%; margin: 10px auto;"/> <p>S. 89°59' W., beginning new measurement.</p> <p>Along the center of pavement of McCormick Boulevard.</p> <p>39.98 The cor. of secs. 20, 21, 28 and 29, monumented with an iron post, 2 ins. diam., firmly set, 9 ins. below the surface, shrouded in a plastic sleeve, 4 ins. diam., with brass cap mkd. T21N R21W S20 S21 S29 S28 1915.</p> <p>Cor. is located 69 lks. N. of the center of pavement of McCormick Boulevard, 50 ft. wide, bears S. 60° W. and N. 60° E., curving easterly.</p> <hr style="width: 20%; margin: 10px auto;"/>
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Metes-and-Bounds Survey in Section 28,  
T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona

CHAINS

Memorandum

The following metes-and-bounds survey, was executed to segregate Patent Number 02-97-001 (5.00 acres), granted to Bullhead City Fire District, into two parcels, 1. A 1.15 acre parcel to be retained by the Bullhead City Fire District. 2. A 3.85 acre parcel to be granted to city of Bullhead City, for a city park.

From AP 3, hereinbefore described.

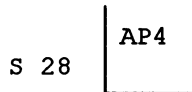
S. 0°04' E., on line 3-4.

0.39 Southerly curb of McCormick Boulevard, bears E. and W.

7.07 Point for AP 4.

Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 17 ins. in the ground, in a mound of stone, 2 1/2 ft. base, to top, with brass cap mkd.

T 21 N R 21 W



2005

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

From this cor. point, U.S. Coast and Geodetic Survey triangulation station, "FT MOHAVE 1934", bears S. 29°27' W., (forward bearing), 874.73 chs. dist., monumented with a drill hole, in a 12 X 12 X 7 ins. high concrete block. The standard bronze disk has been removed.

N. 89°56' E., on line 4-5.

Over open desert, through sparse vegetation.

6.89 West edge of pavement, of Mercer Road.

7.07 Point for AP 5, established by Edward F. Vincent, Arizona Registered Land Surveyor No. 17548, in 1991, monumented with a PK nail, set flush with the pavement of Mercer Road, with attached brass wafer, stamped LS 17548. The cor. was established as part of a survey for the State of Arizona, recorded and on file in Mohave County Records Office, in Book 8 of Record of Surveys on page 48.

This is accepted as a careful and faithful determination of the position of the cor.

**Metes-and-Bounds Survey in Section 28,  
T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	
	<p>At the corner point</p> <p>Set a railroad spike, flush with the pavement.</p> <p>from which</p> <p style="padding-left: 40px;">A stainless steel post, 28 ins. long, 2 1/2 ins. diam., set 23 ins. in the ground, for a reference monument, bears N. 49°02' E., 44.3 ft. dist., with brass cap mkd. RM T21N R21W S28 44.3 FT TO COR 2005, and an arrow pointing to the cor. Deposit a magnet in a white plastic case, at the base of the stainless steel post.</p> <p style="padding-left: 40px;">The center of an iron manhole cover, 24 ins. diam., bears N. 18 1/4° W., 1.195 chs. dist.</p> <p>Discard the PK nail.</p> <hr style="width: 30%; margin-left: auto; margin-right: auto;"/> <p>N. 0°04' W., on line 5-6.</p> <p>Along center of pavement, of Mercer Road.</p>
4.04	<p>Point for AP 6.</p> <p>Set a steel chisel, 6 1/2 ins. long, 1/2 in. wide, flush with the pavement of Mercer Road.</p> <p>from which</p> <p style="padding-left: 40px;">The top bolt, (5 sided, 1 1/2 ins. wide) of a fire hydrant, bears N. 75 1/4° W., 54.5 lks. dist.</p>
7.07	<p>AP 1, hereinbefore described.</p> <hr style="width: 60%; margin-left: auto; margin-right: auto;"/> <p>From AP 6.</p> <p>S. 89°56' W., on line 6-7.</p>
0.27	<p>West curb of Mercer Road, bears N. and S., thence over graded and graveled land.</p>
3.80	<p>Point for AP 7.</p> <p>Set a stainless steel post, 28 ins. long, 2 1/2 ins. diam., 29 ins. in the ground, with brass cap mkd.</p> <div style="text-align: center; margin-top: 20px;"> <p>T 21 N   R 21 W</p> <p>S 28       AP7</p> <p style="margin-left: 100px;">└───</p> <p>2005</p> </div>

**Metes-and-Bounds Survey in Section 28,  
T. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona**

CHAINS	<p>Deposit a magnet in a white plastic case at the base of the stainless steel post.</p> <hr style="width: 30%; margin: 10px auto;"/> <p>N. 0°04' W., on line 7-2.</p> <p>Over graded and graveled area.</p> <p>2.64 South curb of McCormick Boulevard, bears E. and W.</p> <p>3.03 AP 2, hereinbefore described.</p> <hr/> <p style="text-align: center;">GENERAL DESCRIPTION</p> <hr/> <p>This survey is located within the city of Bullhead City. Bullhead City Fire Department, station No. 3 is located in the northeasterly portion of the metes-and-bounds survey. Patented lands adjacent to this survey are developed or being developed as residential housing.</p> <p>The mean magnetic declination of 12 1/2° E. was derived from the United States Geological Survey computer program GEOMAG, utilizing the World Magnetic Model for Epoch 2000 for the dates of survey.</p> <hr/>
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CERTIFICATE OF SURVEY

I, Gordon R. Bubel, Cadastral Surveyor, HEREBY CERTIFY upon honor, that in pursuance of special instructions bearing date of the 14th day of February, 2005, I have dependently resurveyed a portion of the subdivisional lines and executed a metes-and-bounds survey in section 28, T. 21 N., R. 21 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, and in specific manner described in the foregoing field notes.

MAY 27, 2005  
(Date)

Gordon R. Bubel  
(Cadastral Surveyor)

CERTIFICATE OF APPROVAL

BUREAU OF LAND MANAGEMENT  
Phoenix, Arizona

The foregoing field notes of the dependent resurvey a portion of the subdivisional lines and a metes-and-bounds survey in section 28, T. 21 N., R. 21 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.

\_\_\_\_\_  
(Date)

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Acting(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. 21 N., R. 21 W., Gila and Salt River Meridian, Arizona, is a true copy of the original field notes.

\_\_\_\_\_  
(Date)

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Acting(Chief Cadastral Surveyor of Arizona)

